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For Veterinary Use Only

#### 1 INTENDED USE

The Rat Resistin ELISA is a sandwich enzyme immunoassay for measurement of rat resistin. Not for human determinations.

#### **Features**

- o It is intended for research use only.
- o The total assay time is less than 4 hours.
- o The kit measures total serum (homodimeric) resistin.
- Assay format is 96 wells.
- o Quality Controls are recombinant rat resistin based. No animal sera are used.
- Standard is recombinant protein based.
- Components of the kit are provided ready to use, concentrated or lyophilized.

#### 2 STORAGE, EXPIRATION

Store the complete kit at 2-8°C. Under these conditions, the kit is stable until the expiration date (see label on the box). For stability of opened reagents see Chapter 9.

#### 3 INTRODUCTION

Resistin, a product of the RSTN gene, is a peptide hormone belonging to the class of cysteine-rich secreted proteins which is termed the RELM family, and is also described as ADSF (Adipose Tissue-Specific Secretory Factor) and FIZZ3 (Found in Inflammatory Zone). Rat resistin contains 114 amino acids as a prepeptide, and its hydrofobic signal peptide is cleaved before its secretion. Resistin circulates in rat blood as a dimeric protein consisting of two 96 amino acid polypeptides, which are disulfide-linked.

Resistin may be an important link between obesity and insulin resistance. Mouse resistin, specifically produced and secreted by adipocyte, acts on skeletal muscle myocytes, hepatocytes and adipocytes themselves so that it reduces their sensitivity to insulin. Steppan et al. have suggested that resistin suppresses the ability of insulin to stimulate glucose uptake. They have also suggested that resistin is present at elevated levels in blood of obese mice, and is down regulated by fasting and antidiabetic drugs (TZDs). On the other hand, several studies demonstrated reduced resistin expression in adipose tissue of obese mice and increased levels in leptin deficient *ob/ob* mice and Zucker diabetic fatty rats in response to TZDs.

Other studies have shown that mouse resistin increases during the differentiation of adipocytes, but it also seems to inhibit adipogenesis. In contrast, the human adipogenic differentiation is likely to be associated with a down regulation of resistin gene expression.

#### Areas of investigation:

Insulin resistance Obesity





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#### 4 TEST PRINCIPLE

In the Rat Resistin ELISA, Standards, Quality Controls and samples are incubated in microplate wells pre-coated with polyclonal anti-rat resistin antibody. After 60 minutes incubation and washing, biotin-labelled polyclonal anti-rat resistin antibody is added and incubated for 60 minutes with captured resistin. After another washing, streptavidin-HRP conjugate is added. After 30 minutes incubation and the last washing step, the remaining conjugate is allowed to react with the substrate solution (TMB). The reaction is stopped by addition of acidic solution and absorbance of the resulting yellow product is measured. The absorbance is proportional to the concentration of resistin. A standard curve is constructed by plotting absorbance values against concentrations of Standards, and concentrations of unknown samples are determined using this standard curve

#### 5 PRECAUTIONS

- For professional use only.
- Wear gloves and laboratory coats when handling immunodiagnostic materials.
- Do not drink, eat or smoke in the areas where immunodiagnostic materials are being handled.
- This kit contains components of animal origin. These materials should be handled as potentially infectious.
- Avoid contact with the acidic Stop Solution and Substrate Solution, which contains hydrogen peroxide and tetramethylbenzidine (TMB). Wear gloves and eye and clothing protection when handling these reagents. Stop and/or Substrate Solutions may cause skin/eyes irritation. In case of contact with the Stop Solution and the Substrate Solution wash skin/eyes thoroughly with water and seek medical attention, when necessary.
- The materials must not be pipetted by mouth.

#### 6 TECHNICAL HINTS

- Reagents with different lot numbers should not be mixed.
- Use thoroughly clean glassware.
- Use deionized (distilled) water, stored in clean containers.
- Avoid any contamination among samples and reagents. For this purpose, disposable tips should be used for each sample and reagent.
- Substrate Solution should remain colourless until added to the plate. Keep Substrate Solution protected from light.
- Stop Solution should remain colourless until added to the plate. The colour developed in the wells will turn from blue to yellow immediately after the addition of the Stop Solution. Wells that are green in colour indicate that the Stop Solution has not mixed thoroughly with the Substrate Solution.
- Dispose of consumable materials and unused contents in accordance with applicable national regulatory requirements.





#### Revised 31 Aug. 2010 rm (Vers. 2.1)

#### For Veterinary Use Only

#### 7 REAGENT SUPPLIED

Kit Components	State	Quantity
Antibody Coated Microtiter Strips	ready to use	96 wells
Biotin Labelled Antibody	ready to use	13 ml
Streptavidin-HRP Conjugate	ready to use	13 ml
Master Standard	lyophilized	1 vial
Quality Control HIGH	lyophilized	1 vial
Quality Control LOW	lyophilized	1 vial
Dilution Buffer	ready to use	20 ml
Wash Solution Conc. (10x)	concentrated	100 ml
Substrate Solution	ready to use	13 ml
Stop Solution	ready to use	13 ml
Product Data Sheet + Certificate of Analysis	-	1 pc

#### 8 MATERIAL REQUIRED BUT NOT SUPPLIED

- Deionized (distilled) water
- Test tubes for diluting samples
- Glassware (graduated cylinder and bottle) for Wash Solution (Dilution Buffer)
- Precision pipettes to deliver 10-1000 μl with disposable tips
- Multichannel pipette to deliver 100 µl with disposable tips
- Absorbent material (e.g. paper towels) for blotting the microtitrate plate after washing
- Vortex mixer
- Orbital microplate shaker capable of approximately 300 rpm
- Microplate washer (optional). [Manual washing is possible but not preferable.]
- Microplate reader with  $450 \pm 10$  nm filter, preferably with reference wavelength 630 nm (alternatively another one from the interval 550-650nm)
- Software package facilitating data generation and analysis (optional)

#### 9 PREPARATION OF REAGENTS

- o All reagents need to be brought to room temperature prior to use.
- o Always prepare only the appropriate quantity of reagents for your test.
- o Do not use components after the expiration date marked on their label.





Revised 31 Aug. 2010 rm (Vers. 2.1)

For Veterinary Use Only

#### Assay reagents supplied ready to use:

#### **Antibody Coated Microtiter Strips**

Stability and storage:

Return the unused strips to the provided aluminium zip-sealed bag with desiccant and seal carefully. Remaining Microtiter Strips are stable 3 months stored at 2-8°C and protected from the moisture.

Biotin Labelled Antibody Streptavidin-HRP Conjugate Dilution Buffer Substrate Solution Stop Solution

Stability and storage:

Opened reagents are stable 3 months when stored at 2-8°C.

#### Assay reagents supplied concentrated or lyophilized:

#### **Rat Resistin Master Standard**

#### Refer to the Certificate of Analysis for current volume of Dilution Buffer needed for reconstitution of standard!!!

Reconstitute the lyophilized Master Standard with Dilution Buffer just prior to the assay. Let it dissolve at least 15 minutes with occasionally gently shaking (not to foam). The resulting concentration of the rat resistin in the stock solution is **20 ng/ml**.

Prepare set of standards using Dilution Buffer as follows:

Volume of Standard	Standard Diluent	Concentration
Stock	-	20 ng/ml
500 μl of stock	500 μ1	10 ng/ml
500 μl of 10 ng/ml	500 μ1	5 ng/ml
500 μl of 5 ng/ml	500 μ1	2.5 ng/ml
500 μl of 2.5 ng/ml	750 μl	1 ng/ml
500 μl of 1ng/ml	500 μ1	0.5 ng/ml
500 μl of 0.5 ng/ml	500 μ1	0.25 ng/ml





#### Revised 31 Aug. 2010 rm (Vers. 2.1)

For Veterinary Use Only

#### Prepared Standards are ready to use, do not dilute them.

#### Stability and storage:

Standard stock solution (20 ng/ml) should be aliquoted and frozen at -20°C for 3 months. Avoid repeated freeze/thaw cycles.

Do not store the diluted Standard solutions.

#### **Quality Controls High, Low**

# Refer to the Certificate of Analysis for current volume of Dilution Buffer needed for reconstitution and for current Quality Controls concentrations!!!

Reconstitute each Quality Control (High and Low) with Dilution Buffer just prior to the assay. Let it dissolve at least 15 minutes with occasionally gently shaking (not to foam).

#### Reconstituted Quality Controls are ready to use, do not dilute them.

#### Stability and storage:

The reconstituted Quality Controls must be used immediately or aliquoted and frozen at -20°C for 3 month. Avoid repeated freeze/thaw cycles.

#### Wash Solution Conc. (10x)

Dilute Wash Solution Conc. (10x) ten-fold in distilled water to prepare a 1x working solution.

#### Example

100 ml of Wash Solution Conc. (10x) + 900 ml of distilled water for use of all 96-wells.

#### Stability and storage:

The diluted Wash Solution is stable 1 month when stored at 2-8°C.

Opened Wash Solution Conc. (10x) is stable 3 months when stored at 2-8°C.

#### 10 PREPARATION OF SAMPLES

The kit measures rat resistin in serum.

Samples should be assayed immediately after collection or should be stored at -20°C. Mix thoroughly thawed samples just prior to the assay and avoid repeated freeze/thaw cycles, which may cause erroneous results. Avoid using hemolyzed or lipemic samples.

Dilute samples 20x with Dilution Buffer just prior to the assay,

e.g.  $10 \mu l$  of sample +  $190 \mu l$  of Dilution Buffer when assaying samples in singlets,

or preferably 15  $\mu$ l of sample + 285  $\mu$ l of Dilution Buffer for duplicates.

Mix well (not to foam). Vortex is recommended.

#### Stability and storage:

Samples should be stored at -20°, or preferably at -70°C for long-term storage. Avoid repeated freeze/ thaw cycles.

Do not store the diluted samples.





Revised 31 Aug. 2010 rm (Vers. 2.1)

For Veterinary Use Only

See Chapter 13 for stability of serum samples if stored at 2-8°C, effect of freezing/thawing on the concentration of rat resistin.

Note: It is recommended to use a precision pipette and a careful technique to perform the dilution in order to get precise results.

#### 11 ASSAY PROCEDURE

- 1. Pipet **100 μl** of prepared Standards, Quality Controls, Dilution Buffer (=Blank) and samples, preferably in duplicates, into the appropriate wells. See Figure 1 for example of work sheet.
- 2. Incubate the plate at room temperature (ca. 25°C) for **1 hour**, shaking at ca. 300 rpm on an orbital microplate shaker.
- 3. Wash the wells **3-times** with Wash Solution (0.35 ml per well). After final wash, invert and tap the plate strongly against paper towel.
- 4. Add **100** μl of Biotin Labeled Antibody into each well.
- 5. Incubate the plate at room temperature (ca. 25°C) for 1 hour, shaking at ca. 300 rpm on an orbital microplate shaker.
- 6. Wash the wells **3-times** with Wash Solution (0.35 ml per well). After final wash, invert and tap the plate strongly against paper towel.
- 7. Add 100 µl of Streptavidin-HRP Conjugate into each well.
- 8. Incubate the plate at room temperature (ca. 25°C) for **30 minutes**, shaking at ca. 300 rpm on an orbital microplate shaker.
- 9. Wash the wells **3-times** with Wash Solution (0.35 ml per well). After final wash, invert and tap the plate strongly against paper towel.
- 10. Add **100** μl of Substrate Solution into each well. Avoid exposing the microtiter plate to direct sunlight. Covering the plate with e.g. aluminium foil is recommended.
- 11. Incubate the plate for **10 minutes** at room temperature. The incubation time may be extended [up to 20 minutes] if the reaction temperature is below than 20°C. Do not shake the plate during the incubation.
- 12. Stop the colour development by adding **100** μ**l** of Stop Solution.
- 13. Determine the absorbance of each well using a microplate reader set to 450 nm, preferably with the reference wavelength set to 630 nm (acceptable range: 550 650 nm). Subtract readings at 630 nm (550 650 nm) from the readings at 450 nm.

Note: If some samples and standard/s have absorbances above the upper limit of your microplate reader, perform a second reading at 405 nm. A new standard curve, constructed using the values measured at 405 nm, is used to determine resistin concentration of off-scale standards and samples. The readings at 405 nm should not replace the readings for samples that were "in range" at 450 nm.





#### Revised 31 Aug. 2010 rm (Vers. 2.1)

#### For Veterinary Use Only

Note 2: Manual washing: Aspirate wells and pipet 0.35 ml Wash Solution into each well. Aspirate wells and repeat twice. After final wash, invert and tap the plate strongly against paper towel. Make certain that Wash Solution has been removed entirely.

!	strip 1+2	strip 3+4	strip 5+6	strip 7+8	strip 9+10	strip 11+12
A	Standard 20	QC High	Sample 7	Sample 15	Sample 23	Sample 31
В	Standard 10	QC Low	Sample 8	Sample 16	Sample 24	Sample 32
C	Standard 5	Sample 1	Sample 9	Sample 17	Sample 25	Sample 33
D	Standard 2.5	Sample 2	Sample 10	Sample 18	Sample 26	Sample 34
E	Standard 1	Sample 3	Sample 11	Sample 19	Sample 27	Sample 35
F	Standard 0.5	Sample 4	Sample 12	Sample 20	Sample 28	Sample 36
G	Standard 0.25	Sample 5	Sample 13	Sample 21	Sample 29	Sample 37
Н	Blank	Sample 6	Sample 14	Sample 22	Sample 30	Sample 38

Figure 1: Example of a work sheet.

#### 12 CALCULATIONS

Most microplate readers perform automatic calculations of analyte concentration. The standard curve is constructed by plotting the mean absorbance (Y) of Standards against the known concentration (X) of Standards in logarithmic scale, using the four-parameter algorithm. Results are reported as concentration of rat resistin ng/ml in samples.

Alternatively, the logit log function can be used to linearize the standard curve, i.e. logit of the mean absorbance (Y) is plotted against log of the known concentration (X) of Standards.

The measured concentration of samples calculated from the standard curve must be multiplied by their respective dilution factor, because samples have been diluted prior to the assay, e.g. 0.73 ng/ml (from standard curve) x 20 (dilution factor) = 14.6 ng/ml.





Revised 31 Aug. 2010 rm (Vers. 2.1)

For Veterinary Use Only

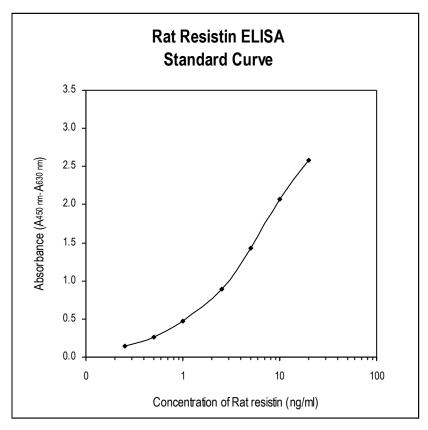


Figure 2: Typical Standard Curve for Rat Resistin ELISA

#### 13 PERFORMANCE CHARACTERISTICS

Typical analytical data of Rat Resistin ELISA are presented in this chapter.

#### 13.1 Sensitivity

Limit of Detection (LOD) (defined as concentration of analyte giving absorbance higher than mean absorbance of blank\* plus three standard deviations of the absorbance of blank:  $A_{blank} + 3xSD_{blank}$ ) is calculated from the real resistin values in wells and is 0.05 ng/ml.

\*Dilution Buffer is pipetted into blank wells.

#### 13.2 Limit of assay

Results exceeding resistin level of 20 ng/ml should be repeated with more diluted samples. Dilution factor needs to be taken into consideration in calculating the resistin concentration.

#### 13.3 Specificity

The antibodies used in this ELISA are specific for rat resistin with no detectable cross reactivities to human and mouse recombinant resistin at 50 ng/ml.





#### Revised 31 Aug. 2010 rm (Vers. 2.1)

For Veterinary Use Only

Sera of several mammalian species were measured in the assay. See results below. For details please contact us at drg@drg-diagnostics.de.

Mammalian serum sample	Observed Cross reactivity
Bovine	no
Cat	no
Dog	no
Goat	yes
Hamster	yes
Horse	no
Monkey	no
Mouse	no
Pig	no
Rabbit	no
Sheep	no

#### 13.4 Precision

Intra-assay (Within-Run) (n=8), results are presented after calculation.

Sample	Mean (ng/ml)	SD (ng/ml)	CV (%)
1	14.07	0.73	5.2
2	21.12	1.03	4.9

Inter assay (Run-to-Run) (n=5), results are presented after calculation.

Sample	Mean (ng/ml)	SD (ng/ml)	CV (%)
1	18.2	0.91	4.9
2	19.3	1.79	9.3

#### 13.5 Spiking Recovery

Serum samples were spiked with different amounts of recombinant rat resistin and assayed. Results are presented after calculation.





#### Revised 31 Aug. 2010 rm (Vers. 2.1)

For Veterinary Use Only

Sample	Observed (ng/ml)	Expected (ng/ml)	Recovery <b>O/E</b> (%)	
1	14.45 24.03 30.83 40.76	24.45 34.45 44.45	98.3 89.5 91.7	
2	21.12 28.00 38.04 64.50	31.12 41.12 71.12	90.0 92.5 90.7	

#### 13.6 Linearity

Serum samples were serially diluted with Dilution Buffer and assayed at a further dilution of 3x. Results are presented after calculation

Sample	Dilution	Observed (ng/ml)	Expected (ng/ml)	Recovery O/E (%)
1	-	28.25	-	-
	2x	15.89	14.12	112.5
	4x	8.03	7.06	113.7
2	-	26.32	-	-
	2x	15.13	13.16	114.9
	4x	7.21	6.58	109.5

#### 13.7 Effect of Freezing/Thawing

No decline was observed in concentration of rat resistin in serum samples after repeated (3x) freezing/thawing cycles.

#### 13.8 Stability of samples at 4°C

Samples should be stored at  $-20^{\circ}$ C. However, no decline was observed in concentration of rat resistin in serum samples when stored at  $4^{\circ}$ C for 8 days. To avoid microbial contamination, add NaN3 to a final concentration 0.1% to the samples.

#### 13.9 Reference range

It is recommended that each laboratory include its own panel of control sample in the assay. Each laboratory should establish its own normal and pathological reference ranges for resistin levels with the assay.

#### 14 DEFINITION OF THE MASTER STANDARD

A recombinant protein is used as the Master Standard. Resistin concentration depends on the method used for total protein determination. Master Standard in the kit contains 20 ng of resistin measured by Bradford method (Sigma-Aldrich).





Revised 31 Aug. 2010 rm (Vers. 2.1)

For Veterinary Use Only

#### 15 METHOD COMPARISON

Since no competitive commercial test is available, Rat Resistin ELISA has not been compared to any other immunoassay.

#### 16 TROUBLESHOOTING AND FAQS

#### Weak signal in all wells

Possible explanations:

- Omission of a reagent or a step
- Improper preparation or storage of a reagent
- Assay performed before reagents were allowed to come to room temperature
- Improper wavelength when reading absorbance

#### High signal and background in all wells

Possible explanations:

- Improper or inadequate washing
- Overdeveloping; incubation time with Substrate Solution should be decreased before addition of Stop Solution
- Incubation temperature over 30°C

#### **High coefficient of variation (CV)**

Possible explanation:

- Improper or inadequate washing
- Improper mixing Standards, Quality Controls or samples





Revised 31 Aug. 2010 rm (Vers. 2.1)

For Veterinary Use Only

#### 17 REFERENCES

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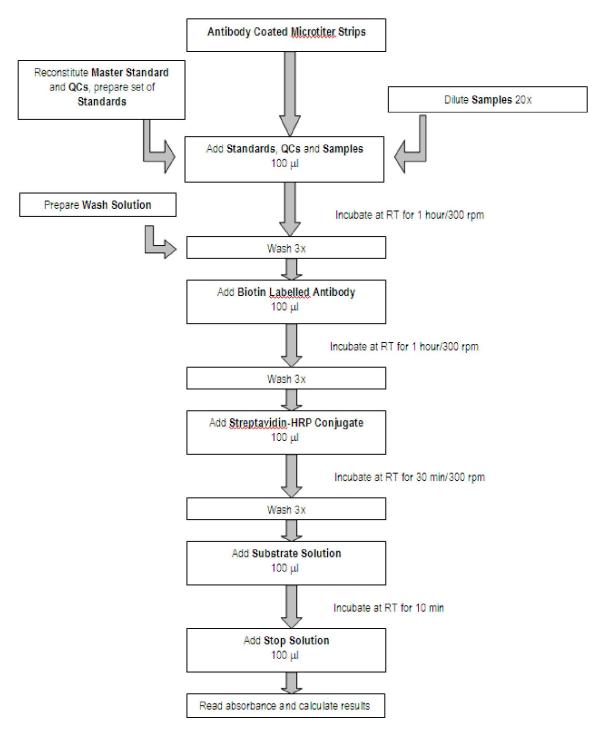




Revised 31 Aug. 2010 rm (Vers. 2.1)

For Veterinary Use Only

#### 18 ASSAY PROCEDURE SUMMARY

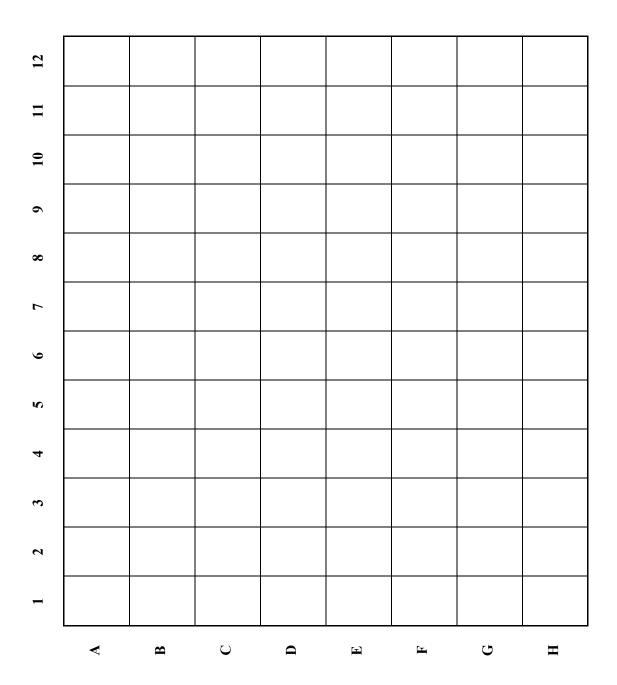






Revised 31 Aug. 2010 rm (Vers. 2.1)

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Revised 31 Aug. 2010 rm (Vers. 2.1)

For Veterinary Use Only

#### SYMBOLS USED WITH DRG ASSAYS

Symbol	English	Deutsch	Français	Español	Italiano
[]i	Consult instructions for use	Gebrauchsanweisung beachten	Consulter les instructions d'utilisation	Consulte las instrucciones de uso	Consultare le istruzioni per l'uso
<b>( (</b>	European Conformity	CE-Konfirmitäts- kennzeichnung	Conformité aux normes européennes	Conformidad europea	Conformità europea
IVD	In vitro diagnostic device	In-vitro-Diagnostikum	Usage Diagnostic in vitro	Para uso Diagnóstico in vitro	Per uso Diagnostica in vitro
RUO	For research use only	Nur für Forschungszwecke	Seulement dans le cadre de recherches	Sólo para uso en investigación	Solo a scopo di ricerca
REF	Catalogue number	Katalog-Nr.	Numéro de catalogue	Número de catálogo	Numero di Catalogo
LOT	Lot. No. / Batch code	Chargen-Nr.	Numéro de lot	Número de lote	Numero di lotto
$\sum$	Contains sufficient for <n> tests/</n>	Ausreichend für "n" Ansätze	Contenu suffisant pour "n" tests	Contenido suficiente para <n> ensayos</n>	Contenuto sufficiente per "n" saggi
1	Storage Temperature	Lagerungstemperatur	Température de conservation	Temperatura de conservación	Temperatura di conservazione
$\square$	Expiration Date	Mindesthaltbarkeits-datum	Date limite d'utilisation	Fecha de caducidad	Data di scadenza
<b></b>	Legal Manufacturer	Hersteller	Fabricant	Fabricante	Fabbricante
Distributed by	Distributor	Vertreiber	Distributeur	Distribuidor	Distributore
Content	Content	Inhalt	Conditionnement	Contenido	Contenuto
Volume/No.	Volume / No.	Volumen/Anzahl	Volume/Quantité	Volumen/Número	Volume/Quantità