

**Anti Dioxin Antibody (RY853)****Lot No.081112**

**Description:** This antibody was raised in a rabbit by immunization with porcine thyroglobulin (pTG) conjugate of 2,3,7,8-Tetrachlorodibenzo-p-dioxin. The product vial contains 1 mg purified IgG of the titled antibody obtained by lyophilizing its solution in Dulbecco's PBS(-) without preservative. It can be used for immunoassay or any other immunoreaction with Dioxin (2,3,7,8-Tetrachlorodibenzo-p-dioxin).

**Immunogen:** 2,3,7,8-Tetrachlorodibenzo-dioxin-pTG-conjugate

**Host:** Rabbit

**Product Form:** Lyophilized

**Quantity:** 1.08 mg/vial

**Reconstitution:** Reconstitute the product with 1.08 mL distilled water to make 1mg/mL stock solution in Dulbecco's PBS(-). If it is stored in a refrigerator, add moderate antiseptic to the solution (e.g. NaN<sub>3</sub> 0.1%).

**Storage:** The product will be stable for over one year if it is stored at -20°C to -80°C until opened. Upon reconstitution, the antibody solution with moderate antiseptic must be stored at 2°C to 8°C and used within one month. If the antibody solution will be stored at -20°C to -80°C, repeated freezing-thawing should be avoided.

**Suggested Working Dilution Range:** Optimal dilution should be determined by each laboratory for each application.

**Specificity:** Based on competition EIA, 2,3,7-TriCDD is used for standard, and the biotinylated 3,7,8-TriCDD is used for labeled antigen in this EIA.

Dioxins	Compounds	Crossreactivity (%)
PCDDs	2,3,7-TriCDD	100
	2,3,7,8-TeCDD	240
	1,2,3,7,8-PeCDD	25
	1,2,3,4,7,8-HxCDD	0.3
	1,2,3,6,7,8-HxCDD	<0.1
	1,2,3,7,8,9-HxCDD	<0.1
	1,2,3,4,6,7,8-HpCDD	<0.1
	1,2,3,4,6,7,8,9-OCDD	0.1
PCDFs	2,3,7,8-TeCDF	15
	1,2,3,7,8-PeCDF	1
	2,3,4,7,8-PeCDF	39
	1,2,3,4,7,8-HxCDF	0.7
	1,2,3,6,7,8-HxCDF	0.3
	1,2,3,7,8,9-HxCDF	<0.1
	2,3,4,6,7,8-HxCDF	0.1
	1,2,3,4,6,7,8-HpCDF	<0.1
	1,2,3,4,7,8,9-HpCDF	<0.1
	1,2,3,4,6,7,8,9-OCDF	<0.1
Co-PCB	3,4,4',5-TeCB (#81)	2
	3,3',4,4'-TeCB (#77)	3
	3,3',4,4',5-PeCB (#126)	0.3
	3,3',4,4',5,5'-HxCB (#169)	<0.1
	2',3,4,4',5-PeCB (#123)	<0.1
	2,3',4,4',5-PeCB (#118)	0.3
	2,3,3',4,4'-PeCB (#105)	0.5
	2,3,4,4',5-PeCB (#114)	0.1
	2,3',4,4',5,5'-HxCB (#167)	<0.1
	2,3,3',4,4',5-HxCB (#156)	0.1
	2,3,3',4,4',5'-HxCB (#157)	<0.1
	2,3,3',4,4',5,5'-HpCB (#189)	<0.1

**FOR RESEARCH LABORATORY USE ONLY**

DO NOT USE ORGANIC SOLVENTS FOR DISSOLVING ANTIBODY

<Distributed by> SCETI K.K. DF Kasumigaseki Place, 3-6-7 Kasumigaseki, Chiyoda-ku, Tokyo 100-0013 Japan  
URL: <http://www.sceti.co.jp/export/> e-mail: exp-pet@sceti.co.jp

<Manufacturer> Yanaihara Institute Inc. 2480-1 Awakura, Fujinomiya-shi, Shizuoka 418-0011 JAPAN