

**KC598**

For research use only

## Anti Human AKR7A3 Monoclonal Antibody

**Clone No. 2B8**

This product is generated from GANP® mice.



**Code No.** KC598  
**Target** AKR7A3  
**Category** Cancer  
**Gene ID** 22977  
**Primary Source** HGNC:390  
**Synonyms** AFAR2

**Type** Monoclonal Antibody  
**Immunogen** Partial peptide of Human AKR7A3  
(Central region, 173-185aa)

**Raised in** GANP® mouse

**Myeloma** P3U1

**Clone number** 2B8

**Purification** ProteinG

**Source** Serum-free medium

**Isotype** IgG2b, κ

**Cross Reactivity** Rat

**Label** Unlabeled

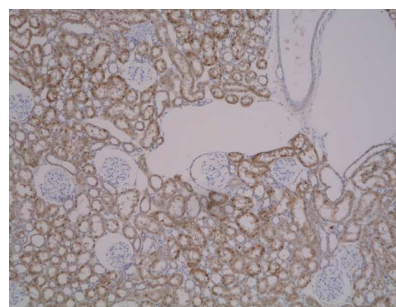
**Concentration** 0.25 mg/mL

**Contents (Volume)** 50 µg (200 µL/vial)

**Buffer** PBS [containing 2% Block Ace as a stabilizer, 0.1% Proclin as a bacteriostat]

**Storage** Store at - 20 °C long term, store at 4 °C short term. Avoid repeated freeze-thaw cycles.

**Application** ELISA, IHC, WB



[IHC] Rat kidney tissue

ELISA	WB	IHC	ICC
1.0	10-20	5.0-10	Not tested
IP	FCM	IF	Neutralization
Not tested	Not tested	Not tested	Not tested

(µg/mL)

### Reference

- "cDNA cloning, expression and activity of a second human aflatoxin B1-metabolizing member of the aldo-keto reductase superfamily, AKR7A3." Knight L.P. et al. Carcinogenesis 20:1215-1223(1999) [PubMed: 10383892] [Abstract]. Cited for: NUCLEOTIDE SEQUENCE [MRNA], CHARACTERIZATION, VARIANTS MET-138; ASP-215 AND ALA-323. Tissue: Liver.
- "Aflatoxin B1 aldehyde reductase (AFAR) genes cluster at 1p35-1p36.1 in a region frequently altered in human tumour cells." Pramli C. et al. Oncogene 22:4765-4773(2003) [PubMed: 12879023] [Abstract]. Cited for: NUCLEOTIDE SEQUENCE [MRNA], TISSUE SPECIFICITY, VARIANTS ASP-215 AND ALA-323.
- "The DNA sequence and biological annotation of human chromosome 1." Gregory S.G. et al. Nature 441:315-321(2006) [PubMed: 16710414] [Abstract]. Cited for: NUCLEOTIDE SEQUENCE [ARGE SCALE GENOMIC DNA]

### UniProt Summary

Function// Can reduce the dialdehyde protein-binding form of aflatoxin B1 (AFB1) to the non-binding AFB1 dialcohol. May be involved in protection of liver against the toxic and carcinogenic effects of AFB1, a potent hepatocarcinogen.

Subunit structure// Homodimer.

Subcellular location// Cytoplasm.

Tissue specificity// Expressed in colon, kidney, liver, pancreas, adenocarcinoma and endometrium.

Sequence similarities// Belongs to the aldo/keto reductase 2 family.