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AKR1B10 Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a partial recombinant AKR1B10.
Catalog # AT1092a

Product Information

Application	WB, IF
Primary Accession	O60218
Other Accession	NM_020299
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	2B3
Calculated MW	36020

Additional Information

Gene ID	57016
Other Names	Aldo-keto reductase family 1 member B10, 111-, ARL-1, Aldose reductase-like, Aldose reductase-related protein, ARP, hARP, Small intestine reductase, SI reductase, AKR1B10, AKR1B11
Target/Specificity	AKR1B10 (NP_064695, 76 a.a. ~ 143 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	AKR1B10 Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

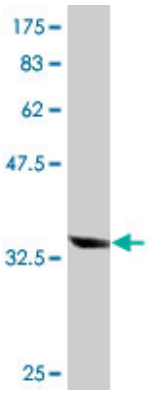
This gene encodes a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. This member can efficiently reduce aliphatic and aromatic aldehydes, and it is less active on hexoses. It is highly expressed in adrenal gland, small intestine, and colon, and may play an important role in liver carcinogenesis.

References

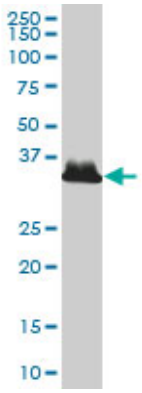
Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes

REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.[Downregulation of AKR1B10 gene expression in colorectal cancer] Kropotova ES, et al. Mol Biol (Mosk), 2010 Mar-Apr. PMID 20586184.Identification and expression analysis of the aldo-ketoreductase1-B10 gene in primary malignant liver tumours. Heringlake S, et al. J Hepatol, 2010 Feb. PMID 20036025.Novel role for aldose reductase in mediating acute inflammatory responses in the lung. Ravindranath TM, et al. J Immunol, 2009 Dec 15. PMID 20007578.Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.

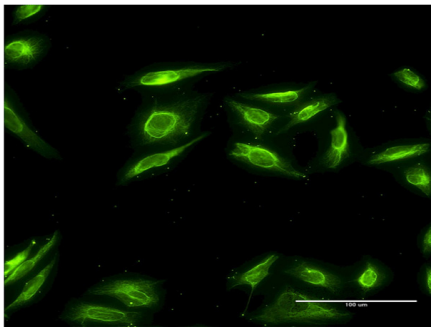
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (33.22 KDa) .



AKR1B10 monoclonal antibody (M03), clone 2B3. Western Blot analysis of AKR1B10 expression in HepG2 ((Cat # AT1092a)



Immunofluorescence of monoclonal antibody to AKR1B10 on HeLa cell . [antibody concentration 10 ug/ml]

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.