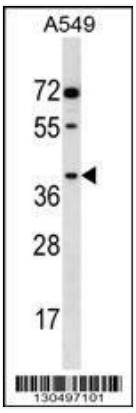
AKR1E2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	AKR1E2, Polyclonal Antibody
Full Product Name	AKR1E2, CT (AKR1E2, AKR1CL2, AKRDC1, 1,5-anhydro-D-fructose reductase, Aldo-keto reductase family 1 member C-like protein 2, Aldo-keto reductase family 1 member E2, LoopADR, Testis-specific protein) (AP)
Product Gene Name	anti-AKR1E2 antibody
Product Synonym Names	AKR1E2; AKR1CL2; AKRDC1; 1,5-anhydro-D-fructose reductase; Aldo-keto reductase family 1 member C-like protein 2; Aldo-keto reductase family 1 member E2; LoopADR; Testis-specific protein
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	36,589 Da
Chromosome Location	Chromosome: 10; NC_000010.10 (4868369..4890254). Location: 10p15.1
3D Structure	ModBase 3D Structure for Q96JD6
Immunogen	AKR1E2 antibody is generated from rabbits immunized with a KLH conjugated synthetic between 290-320 amino acids selected from the C-terminal region of human AKR1E2.
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-AKR1E2 antibody	Antibodies; Enzymes; Reductase
Applications Tested/Suitable for anti-AKR1E2 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-AKR1E2 antibody	WB: 1:100-500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-AKR1E2 antibody	AKR1E2 catalyzes the NADPH-dependent reduction of 1,5-anhydro-D-fructose (AF) to 1,5-anhydro-D-glucitol. Can also catalyze the reduction of various aldehydes and quinones (By similarity). Has low NADPH-dependent reductase activity towards 9,10-phenanthrenequinone (in vitro).
Product References and Citations for anti-AKR1E2 antibody	Clancy, R.M., et al. Arthritis Rheum. 62(11):3415-3424(2010). Lamesch, P., et al. Genomics 89(3):307-315(2007). Grupe, A., et al. Am. J. Hum. Genet. 78(1):78-88(2006). Azuma, Y., et al. Mol. Hum. Reprod. 10(7):527-533(2004). Nishinaka, T., et al. Chem. Biol. Interact. 143-144, 299-305 (2003).
Other Notes	Small volumes of anti-AKR1E2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for AKR1E2 purchase	MBS6272586 is an antibody targeting AKR1E2. Also known as AKR1E2, CT (AKR1E2, AKR1CL2, AKRDC1, 1,5-anhydro-D-fructose reductase, Aldo-keto reductase family 1 member C-like protein 2, Aldo-keto reductase family 1 member E2, LoopADR, Testis-specific protein) (AP). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-AKR1E2 antibody
AKR1E2 Antibody (C-term) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the AKR1E2 antibody detected the AKR1E2 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AKR1E2. It may not necessarily be applicable to this product.

NCBI GI #	93277124
NCBI GeneID	83592
NCBI Accession #	NP_001035267.1
UniProt Primary Accession #	Q96JD6
UniProt Secondary Accession #	Q86Z16; Q86Z17; Q86Z18; Q9BU71
UniProt Related Accession #	Q96JD6
GenBank Nucleotide #	NM_001040177.2
NCBI Official Full Name	1,5-anhydro-D-fructose reductase isoform 1
NCBI Official Synonym Full Names	aldo-keto reductase family 1, member E2
NCBI Official Symbol	AKR1E2
NCBI Official Synonym Symbols	hTSP; htAKR; AKRDC1; AKR1CL2; LoopADR
UniProt Protein Name	1,5-anhydro-D-fructose reductase
UniProt Synonym Protein Names	Aldo-keto reductase family 1 member C-like protein 2; Aldo-keto reductase family 1 member E2; LoopADR; Testis-specific protein
Protein Family	1,5-anhydro-D-fructose reductase
UniProt Gene Name	AKR1E2
UniProt Synonym Gene Names	AKR1CL2; AKRDC1; AF reductase; hTSP
UniProt Entry Name	AKCL2_HUMAN
NCBI Protein Information	1,5-anhydro-D-fructose reductase; AF reductase; testis-specific protein; aldo-keto reductase loopADR; aldo-keto reductase family 1, member C-like 2; aldo-keto reductase family 1 member C-like protein 2
NCBI Summary for AKR1E2	The protein encoded by this gene is a member of the aldo-keto reductase superfamily. Members in this family are characterized by their structure (evolutionarily highly conserved TIM barrel) and function (NAD(P)H-dependent oxido-reduction of carbonyl groups). Transcripts of this gene have been reported in specimens of human testis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012]

UniProt Comments for AKR1E2	AKR1CL2: Catalyzes the NADPH-dependent reduction of 1,5-anhydro- D-fructose (AF) to 1,5-anhydro-D-glucitol. Can also catalyze the reduction of various aldehydes and quinones. Has low NADPH-dependent reductase activity towards 9,10- phenanthrenequinone (in vitro). Belongs to the aldo/keto reductase family. 5 isoforms of the human protein are produced by alternative splicing. Protein type: Oxidoreductase; EC 1.1.1.263 Chromosomal Location of Human Ortholog: 10p15.1 Cellular Component: cytoplasm Molecular Function: 1,5-anhydro-D-fructose reductase activity
Research Articles on AKR1E2	**1.** Observational study of gene-disease association. (HuGE Navigator)
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