

Mouse AKR1B1 (Aldose Reductase) ELISA Kit | AKR1B1 elisa kit

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CATALOG #
AAA277959

REACTIVITY
Mouse

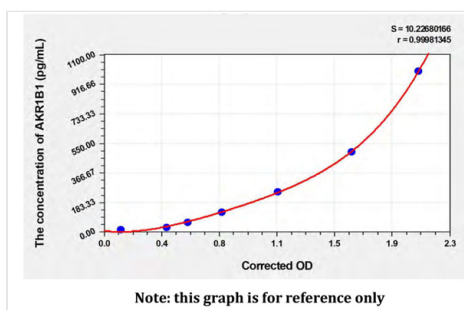
PRODUCT SYNONYMS

AKR1B1 (Aldose Reductase); Mouse AKR1B1 (Aldose Reductase) ELISA Kit; ALR2; AR; Ahr-1; Ahr1; Akr1b1; Aldor1; Aldr1; AKR1B1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of Mouse AKR1B1. No significant cross-reactivity or interference between Mouse AKR1B1 and analogues was observed.
Assay Type	Sandwich
Detection Range	15.63-1000 pg/mL
Sensitivity	6.45 pg/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay)? CV% < 8%. Three samples of known concentration were tested twenty times on 1 plate to assess intra-assay precision.
Inter-assay Precision	Inter-assay Precision (precision between assays)? CV% < 10%. Three samples of known concentration were tested in forty separate assays to assess inter-assay precision.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for AKR1B1 elisa kit

Principle of the Assay: The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Mouse AKR1B1. Standards or samples are added to the appropriate microtiter plate wells then with a biotin-conjugated antibody specific to Mouse AKR1B1. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Mouse AKR1B1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm $\pm$ 10nm. The concentration of Mouse AKR1B1 in the samples is then determined by comparing the OD of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	160707894
NCBI GeneID	11677
NCBI Accession #	NP_033788.3
NCBI GenBank Nucleotide #	NM_009658.3
UniProt Accession #	P45376; O70130; Q99KC9
Molecular Weight	35,732 Da
NCBI Official Full Name	aldose reductase
NCBI Official Synonym Full Names	aldo-keto reductase family 1, member B3 (aldose reductase)
NCBI Official Symbol	Akr1b3
NCBI Official Synonym Symbols	AR; ALR2; Ahr1; Ahr-1; Aldr1; Akr1b1; Aldor1
NCBI Protein Information	aldose reductase
UniProt Protein Name	Aldose reductase
UniProt Gene Name	Akr1b1
UniProt Synonym Gene Names	Akr1b3; Aldor1; Aldr1; AR
UniProt Entry Name	ALDR_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/mouse-elisa-kits/akr1b1-aldose-reductase/277959>