

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

Rat AKR1B1 (Aldose Reductase) ELISA Kit

CATALOG #
AAA277960

REACTIVITY
Rat

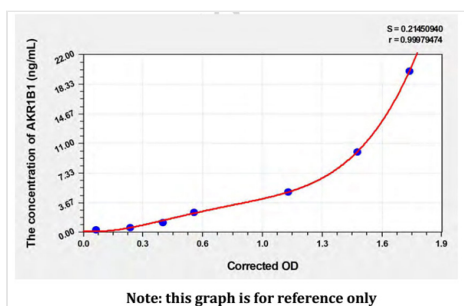
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Rat AKR1B1. No significant cross-reactivity or interference between Rat AKR1B1 and analogues was observed.
Assay Type	Sandwich
Detection Range	0.32-20 ng/mL
Sensitivity	0.14 ng/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 Rat AKR1B1. Standards or samples are added to the appropriate microtiter plate wells then with a biotin-conjugated antibody specific to Rat 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 Rat 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 ± 10nm. The concentration of Rat AKR1B1 in the samples is then determined by comparing the OD of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6978491
NCBI GeneID	24192
NCBI Accession #	NP_036630.1
NCBI GenBank Nucleotide #	NM_012498.1
UniProt Accession #	P07943
Molecular Weight	35,797 Da
NCBI Official Full Name	aldose reductase
NCBI Official Synonym Full Names	aldo-keto reductase family 1 member B
NCBI Official Symbol	Akr1b1
NCBI Official Synonym Symbols	Alr; Aldr1; ALDRED; Akr1b3; Akr1b4; ALR-P-I; RATALDRED
NCBI Protein Information	aldose reductase
UniProt Protein Name	Aldose reductase
UniProt Gene Name	Akr1b1
UniProt Synonym Gene Names	Akr1b4; Aldr1; AR

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/akr1b1-aldose-reductase/277960>