

Rat Aldose Reductase ELISA Kit | AR elisa kit

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CATALOG #
AAA95472

REACTIVITY
Rat

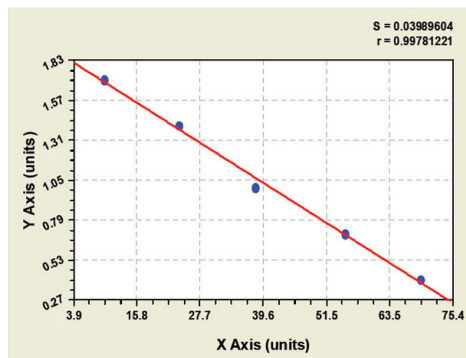
PRODUCT SYNONYMS

Aldose Reductase; Rat Aldose Reductase ELISA Kit; AR elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	1.0-25ng/mL
Sensitivity	0.1ng/ml
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for AR elisa kit

Intended Uses: This AR ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat AR. This ELISA kit for research use only!

Principle of the Assay: AR ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-AR antibody and an AR-HRP conjugate. The assay sample and buffer are incubated together with AR-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the AR concentration since AR from samples and AR-HRP conjugate compete for the anti-AR antibody binding site. Since the number of sites is limited, as more sites are occupied by AR from the sample, fewer sites are left to bind AR-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The AR concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502049
NCBI GeneID	231
NCBI Accession #	NP_001619.1
NCBI GenBank Nucleotide #	NM_001628.2
Molecular Weight	35,853 Da
NCBI Official Full Name	aldose reductase
NCBI Official Synonym Full Names	aldo-keto reductase family 1, member B1 (aldose reductase)
NCBI Official Symbol	AKR1B1
NCBI Official Synonym Symbols	AR; ADR; ALR2; ALDR1
NCBI Protein Information	aldose reductase; aldehyde reductase 1; low Km aldose reductase; Lii5-2 CTCL tumor antigen; aldo-keto reductase family 1 member B1
UniProt Protein Name	Aldose reductase
UniProt Gene Name	AKR1B1
UniProt Synonym Gene Names	ALDR1; AR
UniProt Entry Name	ALDR_HUMAN

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/ar-rat-elisa-kits/aldose-reductase/95472>