

Rat Aldehyde Dehydrogenase ELISA Kit | ALDH elisa kit

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CATALOG #
AAA16203

REACTIVITY
Rat

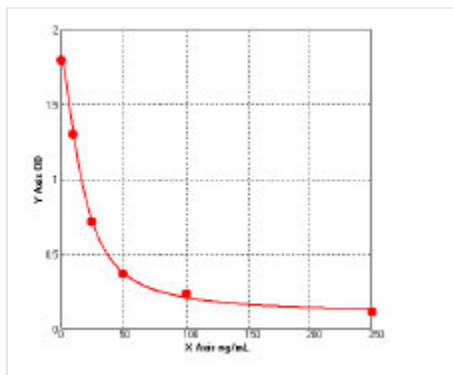
PRODUCT SYNONYMS

Aldehyde Dehydrogenase; Rat Aldehyde Dehydrogenase ELISA Kit; ALDH elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of ALDH. No significant cross-reactivity or interference between ALDH and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between ALDH and all the analogues, therefore, cross reaction may still exist in some cases.
Assay Type	Quantitative Competitive
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Sensitivity	1.0 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ALDH elisa kit	Principle of the Assay: ALDH ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-ALDH antibody and an ALDH-HRP conjugate. The assay sample and buffer are incubated together with ALDH-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 ALDH concentration since ALDH from samples and ALDH-HRP conjugate compete for the anti-ALDH antibody binding site. Since the number of sites is limited, as more sites are occupied by ALDH from the sample, fewer sites are left to bind ALDH-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The ALDH concentration in each sample is interpolated from this standard curve. Intended Uses: This ALDH ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat ALDH. This ELISA kit for research use only, not for therapeutic or diagnostic applications!
Product Categories/Family for ALDH elisa kit	Neurobiology

NCBI AND UNIPROT INFORMATION

NCBI GI #	20129399
NCBI GeneID	34256
NCBI Accession #	NP_609285.1
NCBI GenBank Nucleotide #	NM_135441.2
Molecular Weight	57,019 Da
NCBI Official Full Name	aldehyde dehydrogenase, isoform A
NCBI Official Synonym Full Names	Aldehyde dehydrogenase
NCBI Official Symbol	Aldh
NCBI Official Synonym Symbols	146084_at; ACDH; ALDH; ALDHA1; CG 3752; CG3752; DmelCG3752
NCBI Protein Information	CG3752 gene product from transcript CG3752-RA; Aldh-PA; Aldh-PB; CG3752-PA; CG3752-PB; acetaldehyde dehydrogenase
UniProt Protein Name	Aldehyde dehydrogenase
UniProt Gene Name	Aldh
UniProt Synonym Gene Names	CG3752; Dmel_CG3752
UniProt Entry Name	Q9VLC5_DROME

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.