

## Human Retinal dehydrogenase 1 (ALDH1A1) ELISA Kit | ALDH1A1 elisa kit

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CATALOG #  
**AAA245790**

REACTIVITY  
**Human**

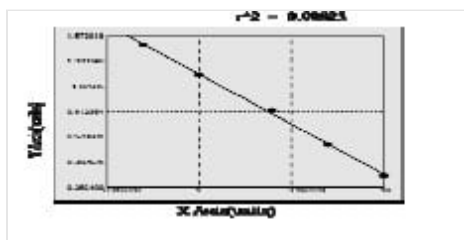
### PRODUCT SYNONYMS

Retinal dehydrogenase 1 (ALDH1A1); Human Retinal dehydrogenase 1 (ALDH1A1) ELISA Kit; ALDH1A1 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                            |
|-------------------------|----------------------------------------------------------------------------|
| Reactivity              | Human                                                                      |
| Samples                 | Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate |
| Assay Type              | Competitive                                                                |
| Detection Range         | 50-1000pg/mL                                                               |
| Sensitivity             | 1.0pg/mL                                                                   |
| Preparation and Storage | Store all reagents at 2-8 degree C.                                        |

### IMAGES



Standard Curve (Sample)

### ADDITIONAL INFORMATION

#### Related Product Information for ALDH1A1 elisa kit

**Intended Uses:** This ALDH1A1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human ALDH1A1. This ELISA kit for research use only!

**Principle of the Assay:** ALDH1A1 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-ALDH1A1 antibody and an ALDH1A1-HRP conjugate. The assay sample and buffer are incubated together with ALDH1A1-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 ALDH1A1 concentration since ALDH1A1 from samples and ALDH1A1-HRP conjugate compete for the anti-ALDH1A1 antibody binding site. Since the number of sites is limited, as more sites are occupied by ALDH1A1 from the sample, fewer sites are left to bind ALDH1A1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The ALDH1A1 concentration in each sample is interpolated from this standard curve.

#### Product Categories/Family for ALDH1A1 elisa kit

Neuroscience

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                                                                                                 |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 21361176                                                                                                                                                                                                                                                                                                        |
| NCBI GeneID                      | 216                                                                                                                                                                                                                                                                                                             |
| NCBI Accession #                 | NP_000680.2                                                                                                                                                                                                                                                                                                     |
| NCBI GenBank Nucleotide #        | NM_000689.4                                                                                                                                                                                                                                                                                                     |
| Molecular Weight                 | 54,862 Da                                                                                                                                                                                                                                                                                                       |
| NCBI Official Full Name          | retinal dehydrogenase 1                                                                                                                                                                                                                                                                                         |
| NCBI Official Synonym Full Names | aldehyde dehydrogenase 1 family, member A1                                                                                                                                                                                                                                                                      |
| NCBI Official Symbol             | ALDH1A1                                                                                                                                                                                                                                                                                                         |
| NCBI Official Synonym Symbols    | ALDC; ALDH1; HEL-9; HEL12; PUMB1; ALDH11; RALDH1; ALDH-E1; HEL-S-53e                                                                                                                                                                                                                                            |
| NCBI Protein Information         | retinal dehydrogenase 1; ALHDII; RALDH 1; ALDH class 1; acetaldehyde dehydrogenase 1; epididymis luminal protein 9; epididymis luminal protein 12; retinaldehyde dehydrogenase 1; aldehyde dehydrogenase 1, soluble; aldehyde dehydrogenase, liver cytosolic; epididymis secretory sperm binding protein Li 53e |
| UniProt Protein Name             | Retinal dehydrogenase 1                                                                                                                                                                                                                                                                                         |
| UniProt Gene Name                | <b>ALDH1A1</b>                                                                                                                                                                                                                                                                                                  |
| UniProt Synonym Gene Names       | ALDC; ALDH1; PUMB1; RALDH 1; RaIDH1                                                                                                                                                                                                                                                                             |
| UniProt Entry Name               | AL1A1_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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/retinal-dehydrogenase-1-aldh1a1/245790>