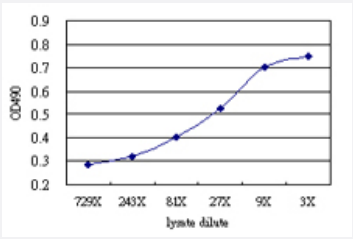
ALDH4A1 (Human) Matched Antibody Pair

Catalog # H00008659-AP51 Size 1 Set

Applications



Sandwich ELISA detection sensitivity ranging from approximately 729x to 3x dilution of the ALDH4A1 293T overexpression lysate (non-denatured).

Specification

Product Description	This antibody pair set comes with a matched antibody pair to detect and quantify the protein level of human ALDH4A1.
Reactivity	Human
Interspecies Antigen Sequence	Mouse (91); Rat (91)
Quality Control Testing	Standard curve using ALDH4A1 293T overexpression lysate (non-denatured) as an analyte. Sandwich ELISA detection sensitivity ranging from approximately 729x to 3x dilution of the ALDH4A 1 293T overexpression lysate (non-denatured).
Supplied Product	Antibody pair set content: 1. Capture antibody: mouse monoclonal anti-ALDH4A1 (100 ug) 2. Detection antibody: rabbit purified polyclonal anti-ALDH4A1 (50 ug) *Reagents are sufficient for at least 3-5 x 96 well plates using recommended protocols.
Storage Instruction	Store reagents of the antibody pair set at -20°C or lower. Please aliquot to avoid repeated freeze tha w cycle. Reagents should be returned to -20°C storage immediately after use.

Applications

- ELISA Pair (Transfected lysate)

  Protocol Download

Gene Info — ALDH4A1

Entrez GeneID	8659
Gene Name	ALDH4A1
Gene Alias	ALDH4, P5CD, P5CDh, P5CDhL, P5CDhS
Gene Description	aldehyde dehydrogenase 4 family, member A1
Omim ID	239510 606811
Gene Ontology	Hyperlink
Gene Summary	This protein belongs to the aldehyde dehydrogenase family of proteins. This enzyme is a mitochondrial matrix NAD-dependent dehydrogenase which catalyzes the second step of the proline degradation pathway, converting pyrroline-5-carboxylate to glutamate. Deficiency of this enzyme is associated with type II hyperprolinemia, an autosomal recessive disorder characterized by accumulation of delta-1-pyrroline-5-carboxylate (P5C) and proline. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq
Other Designations	OTTHUMP00000002544|OTTHUMP00000002545|P5C dehydrogenase|aldehyde dehydrogenase 4A1|mitochondrial delta-1-pyrroline 5-carboxylate dehydrogenase

Pathway

- Alanine
- Arginine and proline metabolism
- Metabolic pathways

Disease

- Adenocarcinoma
- Esophageal Neoplasms
- Hearing Loss