

ALDH4A1 (Human) Matched Antibody Pair

Catalog # H00008659-AP21 Size 1 Set

Applications



Sandwich ELISA detection sensitivity ranging from 1 ng/ml to 100 ng/ml.

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 recombinant protein (H00008659-P01) as an analyte. Sandwich ELISA detection sensitivity ranging from 1 ng/ml to 100 ng/ml.
Supplied Product	Antibody pair set content: 1. Capture antibody: rabbit MaxPab® affinity purified polyclonal anti-ALDH4A1 (100 ug) 2. Detection antibody: mouse purified polyclonal anti-ALDH4A1 (20 ug) *Reagents are sufficient for at least 1-2 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

😵 Abnova

ELISA Pair (Recombinant protein)

Protocol Download

Gene Info — ALDH4A1

Entrez GenelD	<u>8659</u>
Gene Name	ALDH4A1
Gene Alias	ALDH4, P5CD, P5CDh, P5CDhL, P5CDhS
Gene Description	aldehyde dehydrogenase 4 family, member A1
Omim ID	<u>239510 606811</u>
Gene Ontology	<u>Hyperlink</u>
Gene Summary	This protein belongs to the aldehyde dehydrogenase family of proteins. This enzyme is a mitocho ndrial matrix NAD-dependent dehydrogenase which catalyzes the second step of the proline degr adation pathway, converting pyrroline-5-carboxylate to glutamate. Deficiency of this enzyme is ass ociated with type II hyperprolinemia, an autosomal recessive disorder characterized by accumulat ion of delta-1-pyrroline-5-carboxylate (P5C) and proline. Alternatively spliced transcript variants e ncoding different isoforms have been identified for this gene. [provided by RefSeq
Other Designations	OTTHUMP0000002544 OTTHUMP0000002545 P5C dehydrogenase aldehyde dehydrogenas e 4A1 mitochondrial delta-1-pyrroline 5-carboxylate dehydrogenase

Pathway

- <u>Alanine</u>
- <u>Arginine and proline metabolism</u>
- <u>Metabolic pathways</u>

Disease

- <u>Adenocarcinoma</u>
- Esophageal Neoplasms
- Hearing Loss