ALDH4A1 rabbit monoclonal antibody

Catalog # H00008659-K Size 100 ug x up to 3

Specification

Product Description	Rabbit monoclonal antibody raised against a human ALDH4A1 peptide using ARM Technology.
Immunogen	A synthetic peptide of human ALDH4A1 is used for rabbit immunization. Customer or Abnova will decide on the preferred peptide sequence.
Host	Rabbit
Library Construction	Non-fusion antibody library from rabbit spleen (ARM Technology).
Expression	Overexpression vector and transfection into 293H cell line.
Reactivity	Human
Purification	Protein A
Isotype	IgG
Quality Control Testing	Antibody reactive against human ALDH4A1 peptide by ELISA and mammalian transfected lysate by Western Blot.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Deliverable	Up to three rabbit IgG clones of 100 ug each will be delivered to customer.
Note	1. Customer may provide cell or tissue lysate for antibody screening. 2. Rabbit monoclonal antibody generated by ARM technology is amenable to antibody engineering in cluding $F(ab)_2$, IgG, scFv and different Fc and non-Fc conjugates per customer request.

Applications

- Western Blot (Transfected lysate)

  Protocol Download

- ELISA

Gene Info — ALDH4A1

Entrez GeneID	8659
GeneBank Accession#	ALDH4A1
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