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
lsotype	lgG
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. Aliguot to avoid repeated freezing and thawing
	Store at 20 0 of lower. Aliquet to avoid repeated needing and thawing.
Deliverable	Up to three rabbit IgG clones of 100 ug each will be delivered to customer.

Applications

Western Blot (Transfected lysate)

Protocol Download

• ELISA

Gene Info — ALDH4A1

Entrez GenelD	<u>8659</u>
GeneBank Accession#	ALDH4A1
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

Pathway

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

Disease

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