Datasheet for ABIN2782324

anti-ALDH4A1 antibody (C-Term)

3 Images

Go to Product page

Overview

Quantity:	100 µL
Target:	ALDH4A1
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat, Cow, Dog, Horse, Rabbit, Zebrafish (Danio rerio), Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ALDH4A1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the C terminal region of human ALDH4A1
Sequence:	RNAAGNFYIN DKSTGSIVGQ QPFGGARASG TNDKPGGPHY ILRWTSPQVI
Predicted Reactivity:	Cow: 100%, Dog: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Pig: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 100%
Characteristics:	This is a rabbit polyclonal antibody against ALDH4A1. It was validated on Western Blot and immunohistochemistry.
Purification:	Protein A purified

Target Details

Target:	ALDH4A1

Target Details

Alternative Name:	ALDH4A1 (ALDH4A1 Products)
Background:	ALDH4A1 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.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. Two transcript variants encoding the same protein have been identified for this gene. Alias Symbols: ALDH4, P5CD, P5CDh, P5CDhL, P5CDhS Protein Interaction Partner: UBC, MDM2, ALDH4A1, ARG1, APP, Protein Size: 563
Molecular Weight:	62 kDa
Gene ID:	8659
NCBI Accession:	NM_003748, NP_003739
UniProt:	P30038
Pathways:	Monocarboxylic Acid Catabolic Process

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 563 AA
Restrictions:	For Research Use only

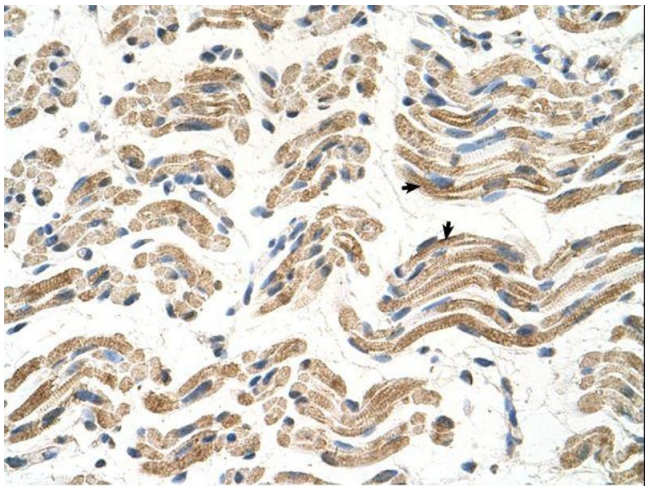
Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images

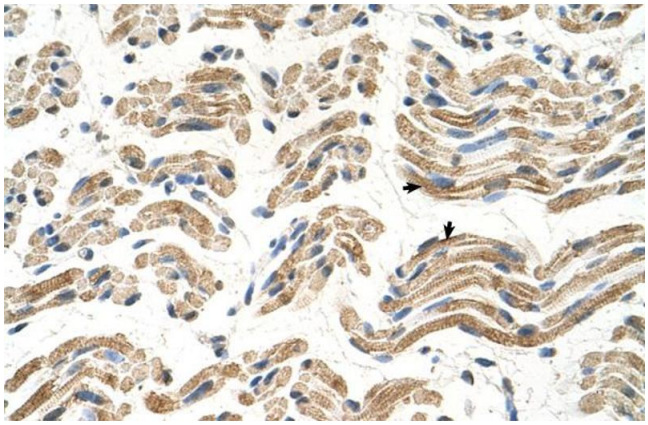


Immunohistochemistry

Image 1.

Western Blotting

Image 2. WB Suggested Anti-ALDH4A1 Antibody Titration: 1.25 ug/ml Positive Control: Fetal liver cell lysate



Immunohistochemistry

Image 3. Human Muscle

