Rabbit anti-Human ALDH4A1 Polyclonal Antibody | anti-ALDH4A1 antibody

ALDH4A1 Antibody (C-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA290069	**Rabbit**	**Human**	**Immunohistochemistry, ELISA, Western Blot**

PRODUCT SYNONYMS

ALDH4A1; Polyclonal Antibody; ALDH4A1 Antibody (C-term); Delta-1-pyrroline-5-carboxylate dehydrogenase; mitochondrial; P5C dehydrogenase; Aldehyde dehydrogenase family 4 member A1; L-glutamate gamma-semialdehyde dehydrogenase; ALDH4; P5CDH; anti-ALDH4A1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This ALDH4A1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 533-561 amino acids from the C-terminal region of human ALDH4A1.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	533-561
Sequence Length	512
Applicable Applications for anti-ALDH4A1 antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES

WB (Western Blot)
Western blot analysis of ALDH4A1 (arrow) using rabbit polyclonal ALDH4A1 Antibody (C-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the ALDH4A1 gene.

IHC (Immunohiostchemistry)
Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with ALDH4A1 antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

WB (Western Blot)
Western blot analysis of anti-ALDH4A1 Antibody (C-term) in HepG2 cell line lysates (35ug/lane). ALDH4A1(arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-ALDH4A1 antibody	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.
Product Categories/Family for anti-ALDH4A1 antibody	Metabolism; Signal Transduction
References	Yoon,K.A., J. Hum. Genet. 49 (3), 134-140 (2004) Geraghty,M.T., Hum. Mol. Genet. 7 (9), 1411-1415 (1998)

NCBI AND UNIPROT INFORMATION

NCBI GI #	238859541
NCBI GeneID	8659
NCBI Accession #	NP_001154976.1; NP_003739.2; NP_733844.1
NCBI GenBank Nucleotide #	NM_001161504.1
UniProt Accession #	P30038; Q16882; Q53HU4; Q5JNV6; Q8IZ38; Q96IF0; Q9UDI6; A8K1Q7; B4DGE4; D2D4A3
Molecular Weight	61719
NCBI Official Full Name	delta-1-pyrroline-5-carboxylate dehydrogenase, mitochondrial isoform b
NCBI Official Synonym Full Names	aldehyde dehydrogenase 4 family, member A1
NCBI Official Symbol	ALDH4A1
NCBI Official Synonym Symbols	P5CD; ALDH4; P5CDh
NCBI Protein Information	delta-1-pyrroline-5-carboxylate dehydrogenase, mitochondrial
UniProt Protein Name	Delta-1-pyrroline-5-carboxylate dehydrogenase, mitochondrial
UniProt Gene Name	**ALDH4A1**
UniProt Synonym Gene Names	ALDH4; P5CDH; P5C dehydrogenase
UniProt Entry Name	AL4A1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/polyclonal/aldh4a1-antibody-immunohistochemistry-western-blot-elisa/290069