Rabbit anti-Human ALDH5A1 Polyclonal Antibody | anti-ALDH5A1 antibody

ALDH5A1 Antibody (N-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA284619	**Rabbit**	**Human**	**Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot**

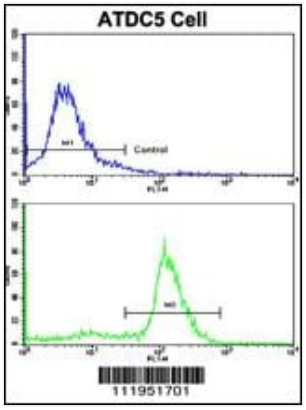
PRODUCT SYNONYMS

ALDH5A1; Polyclonal Antibody; ALDH5A1 Antibody (N-term); Succinate-semialdehyde dehydrogenase; mitochondrial; Aldehyde dehydrogenase family 5 member A1; NAD(+)-dependent succinic semialdehyde dehydrogenase; SSADH; anti-ALDH5A1 antibody

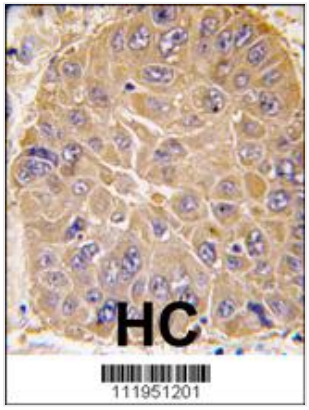
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This ALDH5A1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 128-157 amino acids from the N-terminal region of human ALDH5A1.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	128-157
Sequence Length	535
Applicable Applications for anti-ALDH5A1 antibody	FCM/FACS (Flow Cytometry), 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.

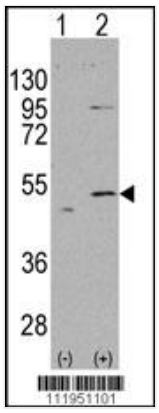
IMAGES



FCM/FACS (Flow Cytometry)
Flow cytometric analysis of ATDC5 cells using ALDH5A1 Antibody (N-term) (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohiostchemistry)
Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with ALDH5A1 antibody (N-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 ALDH5A1 (arrow) using rabbit polyclonal ALDH5A1 Antibody (N-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the ALDH5A1 gene (Lane 2) (Origene Technologies).

ADDITIONAL INFORMATION

Related Product Information for anti-ALDH5A1 antibody	ALDH5A1 belongs to the aldehyde dehydrogenase family of proteins. This protein functions as a mitochondrial NAD(+)-dependent succinic semialdehyde dehydrogenase. A deficiency of this enzyme, known as 4-hydroxybutyricaciduria, is a rare inborn error in the metabolism of the neurotransmitter 4-aminobutyric acid (GABA). In response to the defect, physiologic fluids from patients accumulate GHB, a compound with numerous neuromodulatory properties.
Product Categories/Family for anti-ALDH5A1 antibody	Metabolism; Neuroscience; Signal Transduction
References	Knerr,I., J. Inherit. Metab. Dis. 30 (3), 279-294 (2007) Blasi,P., J. Mol. Evol. 63 (1), 54-68 (2006) Plomin,R., Mol. Psychiatry 9 (6), 582-586 (2004)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507229
NCBI GeneID	7915
NCBI Accession #	NP_001071.1; NP_733936.1
NCBI GenBank Nucleotide #	NM_001080.3

UniProt Accession #	P51649; Q546H9; Q8N3W6; B2RD26; G5E949
Molecular Weight	57215
NCBI Official Full Name	succinate-semialdehyde dehydrogenase, mitochondrial isoform 2
NCBI Official Synonym Full Names	aldehyde dehydrogenase 5 family, member A1
NCBI Official Symbol	ALDH5A1
NCBI Official Synonym Symbols	SSDH; SSADH
NCBI Protein Information	succinate-semialdehyde dehydrogenase, mitochondrial
UniProt Protein Name	Succinate-semialdehyde dehydrogenase, mitochondrial
UniProt Gene Name	**ALDH5A1**
UniProt Synonym Gene Names	SSADH
UniProt Entry Name	SSDH_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.

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