

Rabbit ALDH18A1 Polyclonal Antibody | anti-ALDH18A1 antibody

ALDH18A1 Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA288178	Rabbit	Human (Predicted Reactivity: Mouse)	Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot

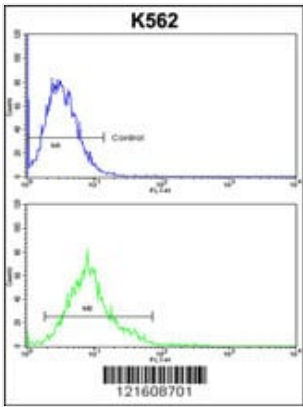
PRODUCT SYNONYMS

ALDH18A1; Polyclonal Antibody; ALDH18A1 Antibody (Center); Delta-1-pyrroline-5-carboxylate synthase; P5CS; Aldehyde dehydrogenase family 18 member A1; Glutamate 5-kinase; GK; Gamma-glutamyl kinase; Gamma-glutamyl phosphate reductase; GPR; Glutamate-5-semialdehyde dehydrogenase; Glutamyl-gamma-semialdehyde dehydrogenase; GSAS; PYCS; anti-ALDH18A1 antibody

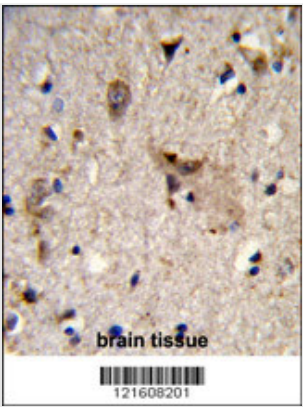
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Mouse)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This ALDH18A1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 176-205 amino acids from the Central region of human ALDH18A1.
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: 0.42 (varies by lot)
Sequence Positions	176-205
Sequence Length	793
Applicable Applications for anti-ALDH18A1 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.

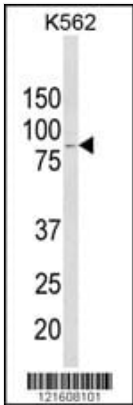
IMAGES



FCM/FACS (Flow Cytometry)
ALDH18A1 Antibody (Center) flow cytometric analysis of k562 cells (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 brain tissue reacted with ALDH18A1 Antibody (Center), 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 ALDH18A1 Antibody (Center) in K562 cell line lysates (35ug/lane). ALDH18A1 (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-ALDH18A1 antibody	ALDH18A1 is a member of the aldehyde dehydrogenase family and encodes a bifunctional ATP- and NADPH-dependent mitochondrial enzyme with both gamma-glutamyl kinase and gamma-glutamyl phosphate reductase activities. The encoded protein catalyzes the reduction of glutamate to delta1-pyrroline-5-carboxylate, a critical step in the de novo biosynthesis of proline, ornithine and arginine.
Product Categories/Family for anti-ALDH18A1 antibody	Metabolism; Signal Transduction
References	Hu,C.A., et.al., Amino Acids 35 (4), 665-672 (2008) Bicknell,L.S., et.al., Eur. J. Hum. Genet. 16 (10), 1176-1186 (2008)

NCBI AND UNIPROT INFORMATION

NCBI GI #	62912457
NCBI GeneID	5832
NCBI Accession #	NP_001017423.1; NP_002851.2
NCBI GenBank Nucleotide #	NM_001017423.1
UniProt Accession #	P54886; O95952; Q3KQU2; Q5T566; Q5T567; Q9UM72; B2R5Q4; B7Z350; B7Z5X8; B7ZLP1; D3DR44

Molecular Weight	87302
NCBI Official Full Name	delta-1-pyrroline-5-carboxylate synthase isoform 2
NCBI Official Synonym Full Names	aldehyde dehydrogenase 18 family, member A1
NCBI Official Symbol	ALDH18A1
NCBI Official Synonym Symbols	GSAS; P5CS; PYCS; ARCL3A
NCBI Protein Information	delta-1-pyrroline-5-carboxylate synthase
UniProt Protein Name	Delta-1-pyrroline-5-carboxylate synthase
UniProt Gene Name	ALDH18A1
UniProt Synonym Gene Names	GSAS; P5CS; PYCS; P5CS; GK; GPR
UniProt Entry Name	P5CS_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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Online datasheet: <https://stage.aaabiotech.com/polyclonal/aldh18a1-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/288178>