

Rabbit anti-Human, Mouse ALDH18A1/P5CS Polyclonal Antibody | anti-ALDH18A1/P5CS antibody

Rabbit anti-ALDH18A1/P5CS Antibody, Affinity Purified

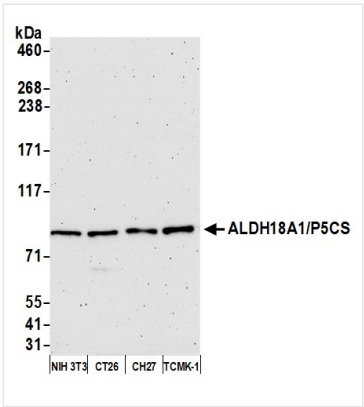
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA212945	Rabbit	Human, Mouse	Immunoprecipitation, Western Blot

PRODUCT SYNONYMS

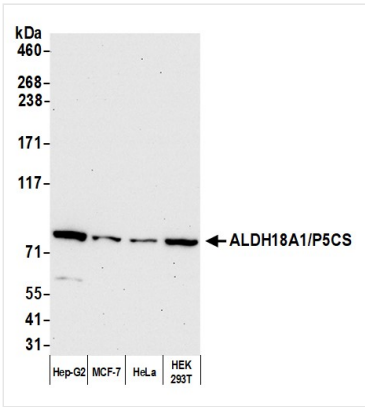
ALDH18A1/P5CS; Polyclonal Antibody; Rabbit anti-ALDH18A1/P5CS Antibody; Affinity Purified; P5CS; Glutamyl-gamma-semialdehyde dehydrogenase; SPG9B; SPG9A; SPG9; Spastic paraplegia-9 (spastic paraparesis with amyotrophy; cataracts and gastroesophageal reflux); spastic paraplegia 9 (autosomal dominant); PYCS; GSAS; ARCL3A; pyrroline-5-carboxylate synthetase (glutamate gamma-semialdehyde synthetase); aldehyde dehydrogenase family 18 member A1; delta1-pyrroline-5-carboxylate synthetase; delta-1-pyrroline-5-carboxylate synthase; delta-1-pyrroline-5-carboxylate synthetase; Glutamate-5-semialdehyde dehydrogenase; Gamma-glutamyl kinase; ADCL3; Gamma-glutamyl phosphate reductase (GPR); Glutamate 5-kinase (GK); Delta-1-pyrroline-5-carboxylate synthase; aldehyde dehydrogenase 18 family member A1; anti-ALDH18A1/P5CS antibody

PRODUCT SPECIFICATIONS

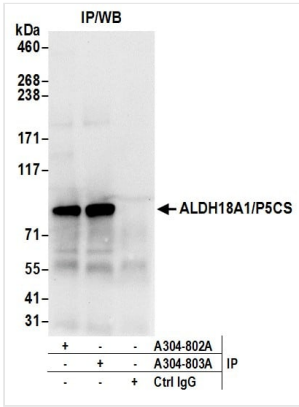
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Purity/Purification	Antigen Affinity Purified
Form/Format	Liquid. Whole IgG. Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide
Concentration	1000ug/ml (varies by lot)
Applicable Applications for anti-ALDH18A1/P5CS antibody	IP (Immunoprecipitation), WB (Western Blot)
Predicted Reactivity	Orangutan
Immunogen	Between 575 and 625
Conjugation	Unconjugated
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt



WB (Western Blot)
Detection of mouse ALDH18A1/P5CS by western blot. Samples: Whole cell lysate (10 ug) from NIH 3T3, CT26, CH27, and TCMK-1 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-ALDH18A1/P5CS antibody AAA212945 Lot 1 used for WB at 0.04 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.



WB (Western Blot)
Detection of human ALDH18A1/P5CS by western blot. Samples: Whole cell lysate (10 ug) from Hep-G2, MCF-7, HeLa, and HEK293T cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-ALDH18A1/P5CS antibody AAA212945 Lot 1 used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.



IP (Immunoprecipitation)
Detection of human ALDH18A1/P5CS by western blot of immunoprecipitates. Samples: Whole cell lysate (0.5 or 1.0 mg per IP reaction; 20% of IP loaded) from 293T cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-ALDH18A1/P5CS antibody AAA212945 (lot AAA212945-1) used for IP at 6 ug per reaction. ALDH18A1/P5CS was also immunoprecipitated by rabbit anti-ALDH18A1/P5CS antibody For blotting immunoprecipitated ALDH18A1/P5CS, AAA212945 was used at 0.4 ug/ml. Detection: Chemiluminescence with an exposure time of 10 seconds.

ADDITIONAL INFORMATION

Related Product Information for anti-ALDH18A1/P5CS antibody	ALDH18A1/P5CS is a bifunctional enzyme that converts glutamate to glutamate 5-semialdehyde, an intermediate in the biosynthesis of proline, ornithine and arginine [taken from the Universal Protein Resource (UniProt) www.uniprot.org/uniprot/P54886].
Product Categories/Family for anti-ALDH18A1/P5CS antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	21361368
NCBI GeneID	5832
NCBI Accession #	NP_002851.2; NP_001017423.1
NCBI GenBank Nucleotide #	NM_002860.3
UniProt Accession #	P54886; O95952; Q3KQU2; Q5T566; Q5T567; Q9UM72; B2R5Q4; B7Z350; B7Z5X8; B7ZLP1; D3DR44

Molecular Weight	87,089 Da
NCBI Official Full Name	delta-1-pyrroline-5-carboxylate synthase isoform 1
NCBI Official Synonym Full Names	aldehyde dehydrogenase 18 family member A1
NCBI Official Symbol	ALDH18A1
NCBI Official Synonym Symbols	GSAS; P5CS; PYCS; ADCL3; SPG9A; SPG9B; 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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/aldh18a1-p5cs-antibody-immunoprecipitation-western-blot-elisa/212945>