

Mouse anti-Homo sapiens P5CS Monoclonal Antibody | anti-P5CS antibody

P5CS (012) Mouse mAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62370	Mouse	Homo sapiens	Flow Cytometry, Functional Assay, Immunoprecipitation, Western Blot

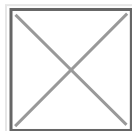
PRODUCT SYNONYMS

P5CS; Monoclonal Antibody; P5CS (012) Mouse mAb; P5CS(012) Mouse mAb; aldehyde dehydrogenase 18 family; member A1; aldehyde dehydrogenase 18A1; Aldehyde dehydrogenase family 18 member A1; ALDH18A1; Delta-1-pyrroline-5-carboxylate synthase; delta-1-pyrroline-5-carboxylate synthetase; delta1-pyrroline-5-carboxylate synthetase; glutamate gamma-semialdehyde synthetase; GSAS; MGC117316; PYCS; pyrroline-5-carboxylate synthetase (glutamate gamma-semialdehyde synthetase); 2810433K04Rik; ADCL3; AI429789; ARCL3A; SPG9A; SPG9B; anti-P5CS antibody

PRODUCT SPECIFICATIONS

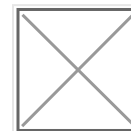
Host	Mouse
Reactivity	Homo sapiens
Clonality	Monoclonal
Isotype	IgG
Sequence Length	793
Applicable Applications for anti-P5CS antibody	FCM/FACS (Flow Cytometry), IP (Immunoprecipitation), WB (Western Blot)
Source Note	This monoclonal antibody is produced by immunizing mice with a sythetic peptide(KLH coupled)corresponding to amino-terminal residues of human P5CS
Preparation and Storage	Store at -20 degree C. Stable for one year from the date of shipment.

IMAGES



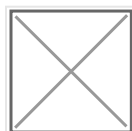
FCM/FACS (Flow Cytometry)

Flow cytometric analysis of 2% paraformaldehyde-fixed Jurkat (Human T cell leukemia cells from peripheral blood) cells labeling P5CS with M25111 at 1/200 dilution (green) compared with a mouse monoclonal IgG isotype control (black) and an unlabelled control (cells without incubation with primary antibody, blue). Goat anti-mouse IgG (FITC) at 1/300 dilution was used as the secondary antibody.



IP (Immunoprecipitation)

P5CS was immunoprecipitated from 1mg of Jurkat cells membrane fraction, blotted with AAA62370 of 10 ug. Western blot was performed from the immunoprecipitate using M25111 at 1/1000 dilution. Anti-Mouse-IgG(HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/10000 dilution. Lane 1: Jurkat cells membrane fraction. Lane2: IP product of Jurkat cells membrane fraction.Predicted band size : 87 KDaObserved band size : 87 KDaBlocking and dilution buffer and concentration:5% milk/TBST.



WB (Western Blot)

ADDITIONAL INFORMATION

Related Product Information for anti-P5CS antibody	This gene 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. Mutations in this gene lead to hyperammonemia, hypoorithinemia, hypocitrullinemia, hypoargininemia and hypoprolinemia and may be associated with neurodegeneration, cataracts and connective tissue diseases. Alternatively spliced transcript variants, encoding different isoforms, have been described for this gene.
Product Categories/Family for anti-P5CS antibody	Cell Marker; Subcellular Marker; Membrane

NCBI AND UNIPROT INFORMATION

NCBI GI #	62912457
NCBI GeneID	5832
NCBI Accession #	NP_001017423.1
NCBI GenBank Nucleotide #	NM_001017423.1
UniProt Accession #	P54886; O95952; Q3KQU2; Q5T566; Q5T567; Q9UM72; B2R5Q4; B7Z350; B7Z5X8; B7ZLP1; D3DR44
Molecular Weight	Predicted MW: 87kDa
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; SPG9; 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

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/monoclonal/p5cs-antibody-flow-cytometry-immunoprecipitation-western-blot-elisa/62370>