

For Research Use Only

P5CS Monoclonal antibody

Catalog Number: 68184-1-Ig



Basic Information

Catalog Number: 68184-1-Ig	GenBank Accession Number: BC106054	Purification Method: Protein A purification
Size: 150ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 5832	CloneNo.: 3B1E11
Source: Mouse	Full Name: aldehyde dehydrogenase 18 family, member A1	Recommended Dilutions: WB 1:5000-1:50000
Isotype: IgG2b	Calculated MW: 795 aa, 87 kDa	
Immunogen Catalog Number: AG12100	Observed MW: 87 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : U2OS cells, mouse colon tissue, rat colon tissue, A549 cells, MCF-7 cells, HeLa cells, LNCaP cells, HepG2 cells, K-562 cells
Species Specificity: Human, Mouse, Rat	

Background Information

Delta 1-pyrroline-5-carboxylate synthetase (P5CS), also named as GSAS, P5CS, PYCS, catalyzes the ATP and the NAD(P)H-dependent conversion of L-glutamate to glutamic gamma-semialdehyde (GSA) which is the metabolic precursor for proline biosynthesis (PMID:8761662). This protein includes 2 domains: glutamate 5-kinase and gamma-glutamyl phosphate reductase. In the N-terminal section, it belongs to the glutamate 5-kinase family and in the C-terminal section, it belongs to the gamma-glutamyl phosphate reductase family. Defects in ALDH18A1 are the cause of cutis laxa, autosomal recessive, type 3A (ARCL3A) (PMID:18478038). It has 2 isoforms produced by alternative splicing.

Storage

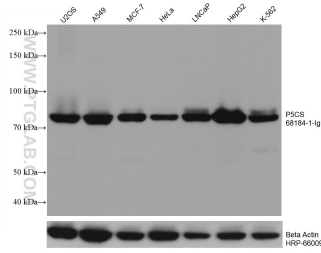
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68184-1-Ig (P5CS antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.