

For Research Use Only

P5CS Monoclonal antibody, PBS Only

Catalog Number: 68184-1-PBS



Basic Information

Catalog Number: 68184-1-PBS	GenBank Accession Number: BC106054	Purification Method: Protein A purification
Size: 100ug, Concentration: 1mg/ml by Nanodrop;	GeneID (NCBI): 5832	CloneNo.: 3B1E11
Source: Mouse	UNIPROT ID: P54886	
Isotype: IgG2b	Full Name: aldehyde dehydrogenase 18 family, member A1	
Immunogen Catalog Number: AG12100	Calculated MW: 795 aa, 87 kDa	
	Observed MW: 87 kDa	

Applications

Tested Applications:
WB, ELISA

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 -80°C.

Storage Buffer:
PBS Only

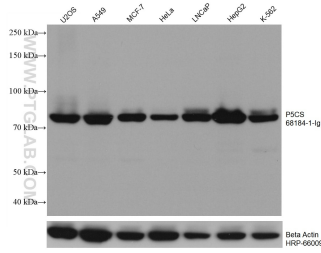
For technical support and original validation data for this product please contact:

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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. This data was developed using the same antibody clone with 68184-1-PBS in a different storage buffer formulation.