For Research Use Only

P5CS Polyclonal antibody Catalog Number: 17719-1-AP Featured Product

Featured Product



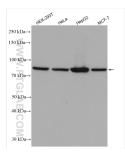


Basic Information	Catalog Number: 17719-1-AP	GenBank Accession Number: BC 106054	Purification Method: Antigen affinity purification	
	Size:	GenelD (NCBI):	Recommended Dilutions:	
	500 ug/ml	5832	WB 1:2000-1:16000	
	Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG12100	UNIPROT ID: P54886	IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500 IF/ICC 1:200-1:800	
				Full Name: aldehyde dehydrogenase 18 family
		member A1 Calculated MW:		
		795 aa, 87 kDa		
		Observed MW:		
		87 kDa		
		Applications	Tested Applications:	Positive Con
WB, IHC, IF/ICC, IP, ELISA Cited Applications: WB, IHC, IF, CoIP	WB: HEK-293		NB : HEK-293T cells, mouse brain tissue, HeLa cells, HepG2 cells, MCF-7 cells, rat brain tissue	
	HepG2 cells,			
Species Specificity:	IP : mouse br		ain tissue,	
human, mouse, rat	IHC : human		breast cancer tissue,	
Cited Species:	IF/ICC : A43		L cells,	
human, mouse, rat				
Note-IHC: suggested antige TE buffer pH 9.0; (*) Alterno retrieval may be performed buffer pH 6.0	atively, antigen			
	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 gamm glutamyl phosphate reductase. In the N-terminal section, it belongs to the gamma-glutamyl phosphate reductase family and in the C terminal section, it belongs to the gamma-glutamyl phosphate reductase family. Defects in ALDH18A1 are the cau of cutis laxa, autosomal recessive, type 3A (ARCL3A)(PMID:18478038). It has 2 isoforms produced by alternative splicing.			
Background Information	NAD(P)H-dependent conversion or precursor for proline biosynthesis glutamyl phosphate reductase. In terminal section, it belongs to the of cutis laxa, autosomal recessive	L-glutamate to glutamic gamma-semia (PMID:8761662). This protein includes 2 the N-terminal section, it belongs to the gamma-glutamyl phosphate reductase	Idehyde (GSA) which is the metabolic Iomains: glutamate 5-kinase and gam glutamate 5-kinase family and in the amily. Defects in ALDH18A1 are the ca	
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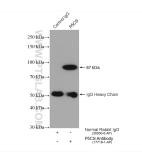
For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926 W: ptgcn.com

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

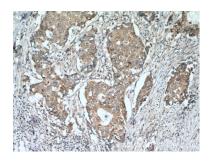
Selected Validation Data



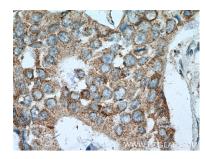
Various lysates were subjected to SDS PAGE followed by western blot with 17719-1-AP (P5CS antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



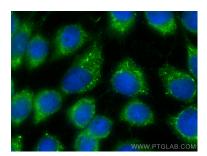
IP result of anti-P5CS (IP:17719-1-AP, 4ug; Detection:17719-1-AP 1:1000) with mouse brain tissue lysate 1600 ug.



Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 17719-1-AP (P5CS antibody at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 17719-1-AP (P5CS antibody at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed A431 cells using P5CS antibody (17719-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).