For Research Use Only

CPS1 Polyclonal antibody Catalog Number: 18703-1-AP Featured Product

Featured Product

18 Publications

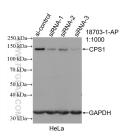


Basic Information	Catalog Number: 18703-1-AP	GenBank Accession Number: BC 140943	Purification Method: Antigen affinity purification	
	Size:	GenelD (NCBI):	Recommended Dilutions:	
	150ul , Concentration: 500 ug/ml by		WB 1:2000-1:14000	
	Nanodrop;	UNIPROT ID:	IHC 1:50-1:500	
	Source:	P31327	IF/ICC 1:50-1:500	
	Rabbit	Full Name:		
	Isotype:carbamoyl-phosphate synthetase 1,IgGmitochondrial		se 1,	
		Calculated MW: 165 kDa		
		Observed MW:		
		140-165 kDa		
Applications	Tested Applications:	Positive Controls:		
			nouse liver tissue, HeLa cells, rat liver tissue	
	Cited Applications: WB, IHC, IF	IHC : hun	nan liver cancer tissue,	
	Species Specificity: human, mouse, rat	IF/ICC : HepG2 cells,		
	Cited Species: human, mouse			
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0			
	CPS1 is an enzyme that catalyzes the first committed step of the hepatic urea cycle, which is important in the removal of excess urea from cells. Expressed primarily in the liver and small intestine, CPS1 can be used as a marker for mitochondria in these tissues. In addition, CPS1 expression appears to be lost in adenocarcinomas of the small intestine. The antibody can recognize two isoforms of this gene around 165 kDa and 116 kDa.			
Background Information	removal of excess urea from cells. Ex marker for mitochondria in these tiss	<pre>kpressed primarily in the liver and sues. In addition, CPS1 expression</pre>	d small intestine, CPS1 can be used as a appears to be lost in adenocarcinomas of th	
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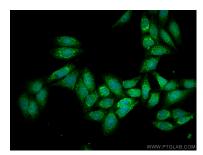
For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com

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

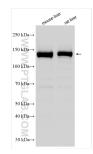
Selected Validation Data



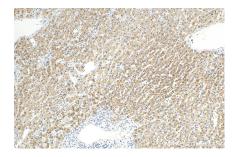
WB result of CPS1 antibody (18703-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CPS1 transfected HeLa cells.



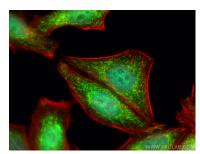
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CPS1 antibody (18703-1-AP) at dilution of 1:200 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



Various lysates were subjected to SDS PAGE followed by western blot with 18703-1-AP (CPS1 antibody) at dilution of 1:7000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 18703-1-AP (CPS1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CPS1 antibody (18703-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).