For Research Use Only

EIF2S1 Monoclonal antibody

Catalog Number:68479-1-lg Featured Product 2 Publications

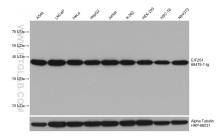


Basic Information	Catalog Number: 68479-1-lg	GenBank Accession Nun BC002513	nber: Purification I Protein G pu	
	Size: 1000 µg/ml	GeneID (NCBI): 1965	CloneNo.: 3C8E2	
	Source: Mouse	UNIPROT ID: P05198		Recommended Dilutions: WB 1:5000-1:50000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IF/ICC 1:400-1:1600
	Isotype: IgG1 Immunogen Catalog Number: AG28309	Full Name: eukaryotic translation in factor 2, subunit 1 alpha	nitiation protein lysat	
		Calculated MW: 36 kDa		
		Observed MW: 36 kDa		
Applications	Tested Applications:			
	WB, IF/ICC, IP, ELISA Cited Applications: WB	J	WB : A549 cells, HepG2 cells, LNCaP cells, HeLa cells Jurkat cells, K-562 cells, HEK-293 cells, HSC-T6 cells, NIH/3T3 cells IP : HepG2 cells,	
	Species Specificity:			
	Human, Mouse, Rat IF/ICC : HepG2 cells, Cited Species:			
Background Information	EIF2S1 is one subunit of the translation initiation factor EIF2, which catalyzes the first regulated step of protein synthesis initiation, promoting the binding of the initiator tRNA to 40S ribosomal subunits. This complex binds to a 40S ribosomal subunit, followed by mRNA binding to form a 43S preinitiation complex. Junction of the 60S ribosomal subunit to form the 80S initiation complex is preceded by hydrolysis of the GTP bound to eIF-2 and release of an eIF-2-GDP binary complex. In order for eIF-2 to recycle and catalyze another round of initiation, the GDP bound to eIF-2 must exchange with GTP by way of a reaction catalyzed by eIF-2B. EIF2A (Gene ID: 83939) and EIF2S1 (Gene ID: 1965) share the EIF2A symbol/alias in common. EIF2S1 is the alpha subunit of the eIF2 translation initiation complex. Although both of these proteins function in binding initiator tRNA to the 40S ribosomal subunit, the EIF2A protein does so in a codon-dependent manner, whereas eIF2 complex requires GTP.			
Notable Publications	Author	Pubmed ID Journal		Application
	Xiaocheng Mao	39615214 Phytome	edicine	WB
	Zhangqi Cao	38538250 Front Bio	osci (Landmark Ed)	WB
Storage	Storage: Store at -20°C. Stable for one yes Storage Buffer: PBS with 0.02% sodium azide ar Aliquoting is unnecessary for -21	nd 50% glycerol pH 7.3.		

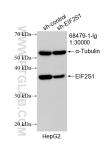
For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926 W: ptgcn.com

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

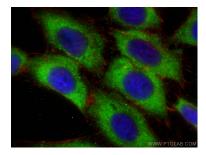
Selected Validation Data



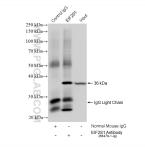
Various lysates were subjected to SDS PAGE followed by western blot with 68479-1-Ig (EIF2S1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control.



WB result of EIF2S1 antibody (68479-1-Ig; 1:30000; incubated at room temperature for 1.5 hours) with sh-Control and sh-EIF2S1 transfected HepG2 cells.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using EIF2S1 antibody (68479-1-Ig, Clone: 3C8E2) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).



IP result of anti-EIF2S1 (IP:68479-1-Ig, 4ug; Detection:68479-1-Ig 1:4000) with HepG2 cells lysate 1480 ug.