## For Research Use Only

## CoraLite® Plus 488-conjugated EIF2S1 Recombinant antibody

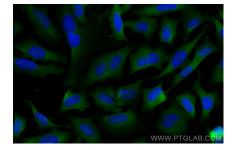
Basic Information	Catalog Number: CL488-82936-8	GenBank Accession Number: BC002513	Purification Method: Protein A purification
	Size: 1000 µg/ml	GenelD (NCBI): 1965	CloneNo.: 230245B8
	Source: Rabbit	UNIPROT ID: P05198	Recommended Dilutions: IF/ICC 1:50-1:500
	lsotype: IgG Immunogen Catalog Number: AG1645	Full Name: eukaryotic translation initiation factor 2, subunit 1 alpha, 35kDa	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
		Calculated MW: 36 kDa	
		Observed MW: 36 kDa	
Applications	Tested Applications: IF/ICC, FC (Intra)	Positive Controls: IF/ICC : HeLa cells,	
	Species Specificity: human, mouse		
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.		
	release of an eIF-2-GDP binary co GDP bound to eIF-2 must exchang EIF2S1 (Gene ID: 1965) share the I initiation complex. Although both	mplex. In order for eIF-2 to recycle and o e with GTP by way of a reaction catalyz EIF2A symbol/alias in common. EIF2S1 of these proteins function in binding in	ed by eIF-2B. EIF2A (Gene ID: 83939) and is the alpha subunit of the eIF2 translatio itiator tRNA to the 40S ribosomal subunit,

For technical support and original validation data for this product please contact: T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

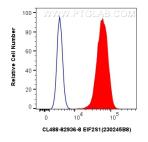
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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CoraLite® Plus 488 EIF2S1 antibody (CL488-82936-8, Clone: 230245B8) at dilution of 1:200.



1x10^6 HeLa cells were intracellularly stained with 0.4 ug CoraLite® Plus 488-conjugated EIF2S1 Recombinant antibody (CL488-82936-8, Clone:230245B8)(red), or 0.4 ug CoraLite® Plus 488-conjugated Rabbit IgG control Rabbit PolyAb (CL488-30000) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).