

EIF2S1 / EIF-2 alpha (EIF2A) Antibody

Mouse Monoclonal Antibody [Clone PCRP-EIF2S1-1E2]

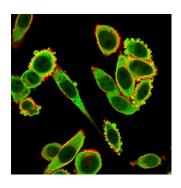
Catalog No	Format	Size
1965-MSM2-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
1965-MSM2-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
1965-MSM2-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

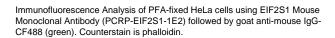
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Western Blot (WB)	2-4ug/ml	

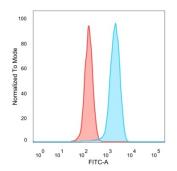
Product Details		
Clone	PCRP-EIF2S1-1E2	
Gene Name	EIF2S1	
Immunogen	Recombinant full-length human EIF2S1 protein	
Host	Mouse	
Clonality	Monoclonal	
Isotype / Light Chain	IgG1	
Mol. Weight of Antigen	36kDa	
Cellular Localization	Cytoplasm, Stress granule	
Species Reactivity	Human	
Positive Control	HeLa or MCF7 cells.	

^{*}Optimal dilution for a specific application should be determined.

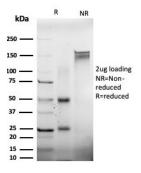
Product Images for EIF2S1 / EIF-2 alpha (EIF2A) Antibody



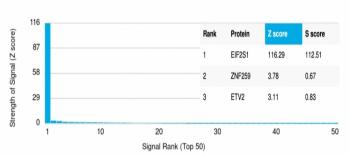




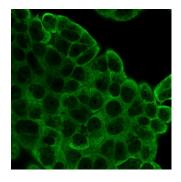
Flow cytometric analysis of PFA-fixed HeLa cells. EIF2S1 Mouse Monoclonal Antibody (PCRP-EIF2S1-1E2) followed by goat anti-mouse IgG-CF488 (blue), isotype control (red).



SDS-PAGE Analysis Purified EIF2S1 Mouse Monoclonal Antibody (PCRP-EIF2S1-1E2) Confirmation of Purity and Integrity of Antibody.



Analysis of Protein Array containing more than 19,000 full-length human proteinsusing EIF2S1 Mouse Monoclonal Antibody (PCRP-EIF2S1-1E2). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Immunofluorescence Analysis of PFA-fixed MCF-7 cells using EIF2S1 Mouse Monoclonal Antibody (PCRP-EIF2S1-1E2) followed by goat anti-mouse IgG-CF488 (green).

Specificity & Comments

The initiation of protein synthesis in eukaryotic cells is regulated by interactions between protein initiation factors and RNA molecules. The eukaryotic initiation complex is composed of three subunits, designated eIF2a, eIF2band eIF2g (eukaryotic translation initiation factor 2 a, band g, respectively), all of which work in concert to form a ternary complex with GTP and tRNA in the early stages of protein synthesis. eIF2a, also known as EIF2S1 or EIF2, is a 315 amino acid subunit of the eukaryotic initiation complex that functions to bind tRNA to the 40S ribosomal subunit (in a GTP-dependent thereby initiating translation. In addition, phosphorylation state of eIF2a controls the rate of tRNA translation. When eIF2a is not phosphorylated, translation occurs at a normal rate. However, upon phosphorylation by one of several kinases, eIF2a is stabilized, thus preventing the GDP/GTP exchange reaction and slowing translation.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8 $^{\circ}$ C. Antibody without azide - store at -20 to -80 $^{\circ}$ C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Cardiovascular

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

