EIF4E Antibody

Mouse Monoclonal Antibody [Clone PCRP-EIF4E-1D3]

Catalog No	Format	Size
1977-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
1977-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
1977-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

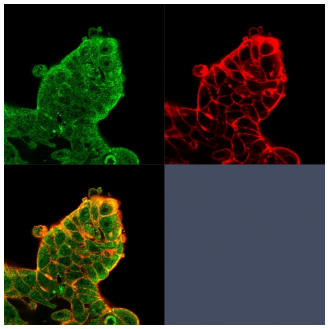
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Western Blot (WB)	2-4ug/ml	

Product Details

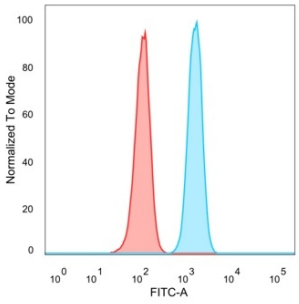
Clone	PCRP-EIF4E-1D3
Gene Name	EIF4E
Immunogen	Recombinant full-length human EIF4E protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2a
Mol. Weight of Antigen	25.1kDa
Cellular Localization	Cytoplasm, Nucleus, P-body, Stress granule
Species Reactivity	Human
Positive Control	HeLa, Raji or U87 cells.

**Optimal dilution for a specific application should be determined.*

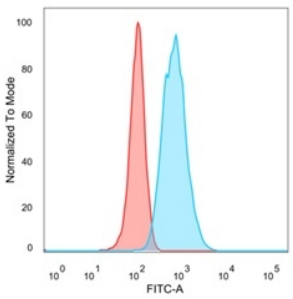
Product Images for EIF4E Antibody



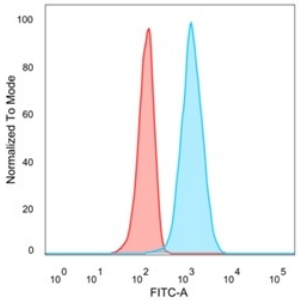
Immunofluorescence Analysis of PFA-fixed MCF-7 cells using EIF4E Mouse Monoclonal Antibody (PCRP-EIF4E-1D3) followed by goat anti-mouse IgG-CF488 (green), phalloidin (red).



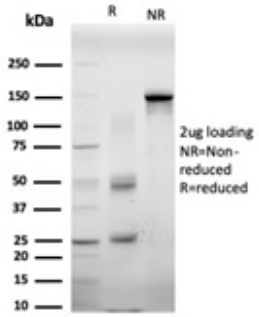
Flow cytometric analysis of PFA-fixed HeLa cells. EIF4E Mouse Monoclonal Antibody (PCRP-EIF4E-1D3) followed by goat anti-mouse IgG-CF488 (blue), isotype control (red).



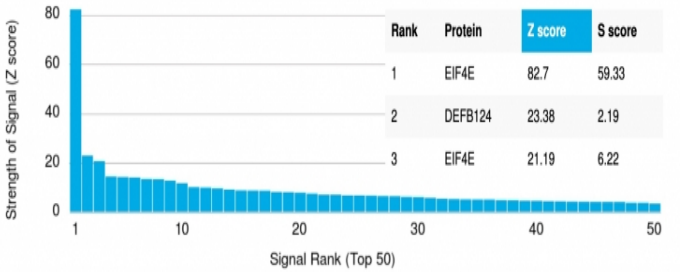
Flow cytometric analysis of PFA-fixed Raji cells.EIF4E Mouse Monoclonal Antibody (PCRP-EIF4E-1D3) followed by goat anti-mouse IgG-CF488 (blue), isotype control (red).



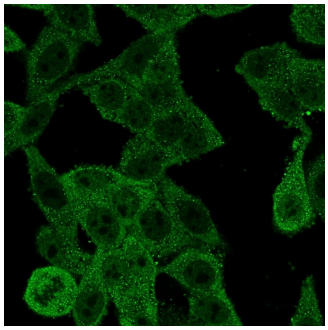
Flow cytometric analysis of PFA-fixed U87 cells. EIF4E Mouse Monoclonal Antibody (PCRP-EIF4E-1D3) followed by goat anti-mouse IgG-CF488 (blue), isotype control (red).



SDS-PAGE Analysis Purified EIF4E Mouse Monoclonal Antibody (PCRP-EIF4E-1D3). Confirmation of Purity and Integrity of Antibody.



Analysis of Protein Array containing more than 19,000 full-length human proteinsusing EIF4E Mouse Monoclonal Antibody (PCRP-EIF4E-1D3). 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 HeLa cells using EIF4E MouseMonoclonal Antibody (PCRP-EIF4E-1D3) 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 eIF4F exists in vitro as a trimeric complex of eIF4E, eIF4A and eIF4G. Together, the complex allows ribosome binding to mRNA by inducing the unwinding of mRNA secondary structures. eIF4E binds to the mRNA cap during an early step in the initiation of protein synthesis. eIF4A acts as an ATP-dependent RNA helicase. eIF4G acts as a bridge between eIF4E, eIF4A and the eIF3 complex.

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 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

AKT Signaling, Cytokine Signaling, Immunology, Signal Transduction

Limitations and Warranty