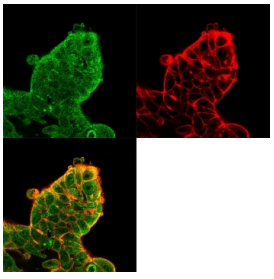
Eukaryotic translation initiation factor 4E Antibody / EIF4E [clone PCRP-EIF4E-1D3] (V9192)

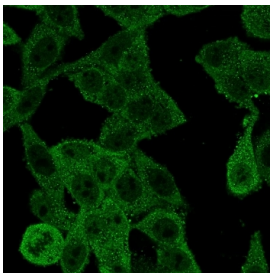
Catalog No.	Formulation	Size
V9192-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9192-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9192SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

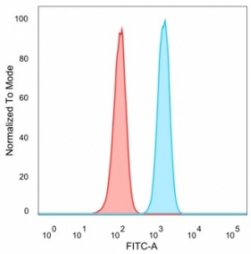
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a
Clone Name	PCRP-EIF4E-1D3
Purity	Protein A/G affinity
UniProt	P06730
Localization	Cytoplasm
Applications	Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-2ug/ml Western Blot : 1-2ug/ml
Limitations	This Eukaryotic translation initiation factor 4E antibody is available for research use only.



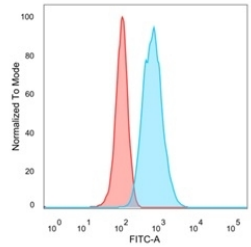
Immunofluorescent staining of PFA-fixed human MCF-7 cells using Eukaryotic translation initiation factor 4E antibody (green, clone PCRP-EIF4E-1D3) and phalloidin (red).



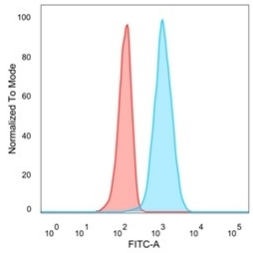
Immunofluorescent staining of PFA-fixed human HeLa cells using Eukaryotic translation initiation factor 4E antibody (green, clone PCRP-EIF4E-1D3).



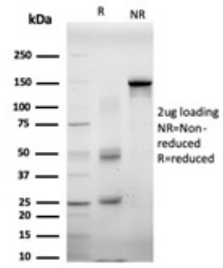
FACS staining of PFA-fixed human HeLa cells with Eukaryotic translation initiation factor 4E antibody (blue, clone PCRP-EIF4E-1D3) and isotype control (red).



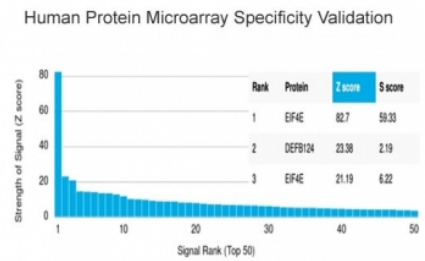
FACS staining of PFA-fixed human Raji cells with Eukaryotic translation initiation factor 4E antibody (blue, clone PCRP-EIF4E-1D3), and isotype control (red).



FACS staining of PFA-fixed human U-87 cells with Eukaryotic translation initiation factor 4E antibody (blue, clone PCRP-EIF4E-1D3), and isotype control (red).



SDS-PAGE analysis of purified, BSA-free Eukaryotic translation initiation factor 4E antibody (clone PCRP-EIF4E-1D3) as confirmation of integrity and purity.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Eukaryotic translation initiation factor 4E antibody (clone PCRP-EIF4E-1D3). These results demonstrate the foremost specificity of the PCRP-EIF4E-1D3 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

Description

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.

Application Notes

Optimal dilution of the Eukaryotic translation initiation factor 4E antibody should be determined by the researcher.

Immunogen

Recombinant full-length human EIF4E/Eukaryotic translation initiation factor 4E protein was used as the immunogen for the Eukaryotic translation initiation factor 4E antibody.

Storage

Aliquot the Eukaryotic translation initiation factor 4E antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.