For Research Use Only

EIF4E Recombinant monoclonal antibody, PBS Only (Capture)

Catalog Number:89091-1-PBS

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Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
89091-1-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG27191

GenBank Accession Number:
BC012611

GeneID (NCBI):
1977

UNIPROT ID:
P06730

Full Name:
eukaryotic translation initiation factor 4E

Calculated MW:
29 kDa

Observed MW:
26-29 kDa

Purification Method:
Protein A purification

CloneNo.:
262243C4

Applications

Tested Applications:
WB, IF/ICC, FC (Intra), Cytometric bead array, Indirect ELISA

Species Specificity:
human, mouse, rat

Product Information

89091-1-PBS targets EIF4E as part of a matched antibody pair:

MP03801-1: 89091-1-PBS capture and 89091-3-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications.Antibody use should be optimized by the end user for each application and assay.

Background Information

Eukaryotic translation initiation factor 4E, also known as eIF4E, is a protein that in humans is encoded by the EIF4E gene. eIF4E is the mRNA cap-binding protein, known as a general initiation factor allowing for mRNA-ribosome interaction and cap-dependent translation in eukaryotic cells. eIF4E is a polypeptide that exists as both a free form and as part of the eIF4F pre-initiation complex. Regulation of eIF4E may be achieved via three distinct mechanisms: transcription, phosphorylation, and inhibitory proteins. This is a rabbit polyclonal antibody raised against the full-length human EIF4E.

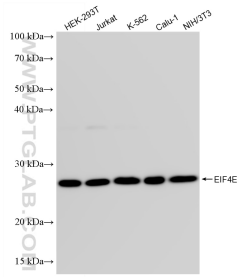
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

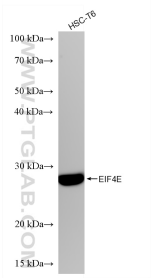
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

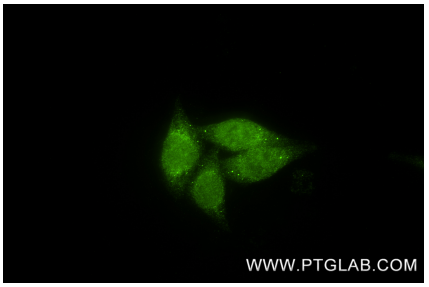
Selected Validation Data



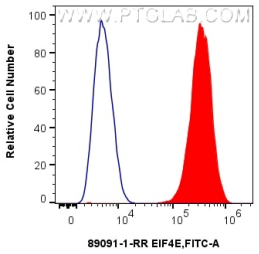
Various lysates were subjected to SDS PAGE followed by western blot with 89091-1-RR (EIF4E antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 89091-1-PBS in a different storage buffer formulation.



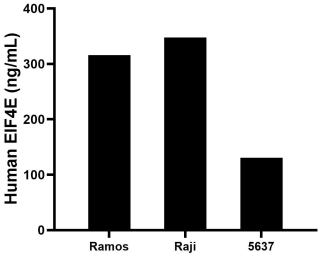
HSC-T6 cells were subjected to SDS PAGE followed by western blot with 89091-1-RR (EIF4E antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 89091-1-PBS in a different storage buffer formulation.



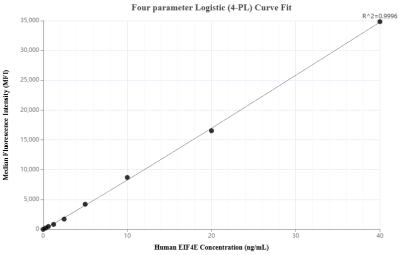
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using EIF4E antibody (89091-1-RR, Clone: 262243C4) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 89091-1-PBS in a different storage buffer formulation.



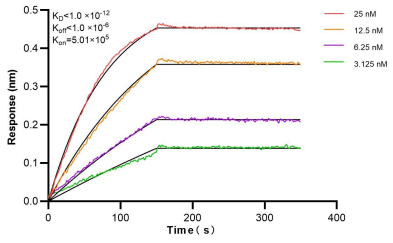
1x10^6 HeLa cells were intracellularly stained with 0.25 ug EIF4E Recombinant monoclonal antibody (89091-1-RR, Clone:262243C4)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit (PF00019). This data was developed using the same antibody clone with 89091-1-PBS in a different storage buffer formulation.



The mean EIF4E concentration was determined to be 316 ng/mL in Ramos cell extract based on a 1.2 mg/mL extract load, 347.5 ng/mL in Raji cell extract based on a 1.2 mg/mL extract load, 130.6 ng/mL in 5637 cell extract based on a 1.2 mg/mL extract load.



Cytometric bead array standard curve of MP03801-1, EIF4E Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 89091-1-PBS. Detection antibody: 89091-3-PBS. Standard: Ag27191. Range: 0.312-40 ng/mL.



Biolayer interferometry (BLI) kinetic assays of 89091-1-RR against Human EIF4E were performed. The affinity constant is below 1 pM.