
phospho-eIF4E (Ser209) Recombinant Rabbit mAb

Catalog Number: bsm-52152R

Target Protein: phospho-eIF4E (Ser209)

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Recombinant

Clone No.: 2B1

Isotype: IgG

Applications: WB (1:500-2000), IHC-P (1:50-200), IHC-F (1:50-200), IF (1:50-200), ICC/IF (1:50-200)

Reactivity: Human, Mouse, Rat (predicted:Rabbit, Pig, Cow, Chicken, Dog, Horse)

Predicted MW: 24 kDa

Entrez Gene: 1977

Swiss Prot: P06730

Source: KLH conjugated Synthesised phosphopeptide derived from human eIF4E around the phosphorylation site of Ser209: SG(p-S)TT.

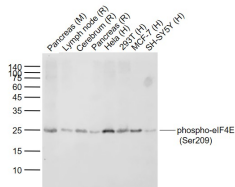
Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

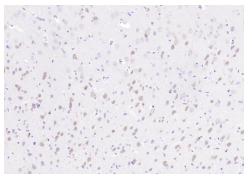
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: eIF4E, a protein modulates translation of maternal mRNAs in early embryos before the onset of zygotic transcription. eIF4E also influences the overall rate of translation. eIF4E binds to the 7 methyl GTP cap structure of eukaryotic mRNAs. Phosphorylation of eIF4E on serine 209 regulates the affinity of this protein for the 7 methyl GTP cap and/or RNA. Phosphorylation also enhances the interaction of eIF4E with eIF4G, which form a complex known as eIF4F. eIF4E phosphorylation is correlated with increased translational rate in a number of cell types. Several kinases are currently being investigated as potential regulators of eIF4E including PKC and/or the MAP kinase activated Mnk.

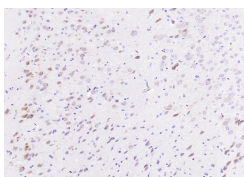
VALIDATION IMAGES



Sample: Lane 1: Pancreas (Mouse) Lysate at 40 ug Lane 2: Lymph node (Rat) Lysate at 40 ug Lane 3: Cerebrum (Rat) Lysate at 40 ug Lane 4: Pancreas (Rat) Lysate at 40 ug Lane 5: Hepa (Human) Cell Lysate at 30 ug Lane 6: 293T (Human) Cell Lysate at 30 ug Lane 7: MCF-7 (Human) Cell Lysate at 30 ug Lane 8: SH-SY5Y (Human) Cell Lysate at 30 ug Primary: Anti-phospho-eIF4E (Ser209) (bsm-52152R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 27 kD Observed band size: 25 kD



Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-eIF4E (Ser209)) Monoclonal Antibody, Unconjugated (bsm-52152R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-eIF4E (Ser209)) Monoclonal Antibody, Unconjugated (bsm-52152R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

PRODUCT SPECIFIC PUBLICATIONS

[IF=31.745] Shan-shan Liu. et al. The chemokine CCL1 triggers an AMFR-SPRY1 pathway that promotes differentiation of lung fibroblasts into myofibroblasts and drives pulmonary fibrosis. Immunity. 2021 Aug; WB ; mouse . 34407391