

eIF4E (Phospho Ser209) Rabbit pAb

CatalogNo: YP0094

| Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 25kD (Observed)

Isotype

- IgG

| Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

| Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:100-1:300

ELISA 1:20000

IF 1:50-200

| Basic Information

Clonality Polyclonal

| Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human eIF4E around the phosphorylation site of Ser209. AA range:168-217

Specificity Phospho-eIF4E (S209) Polyclonal Antibody detects endogenous levels of eIF4E protein only when phosphorylated at S209. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):SGsTT

Target Information

Gene name EIF4E

Protein Name Eukaryotic translation initiation factor 4E

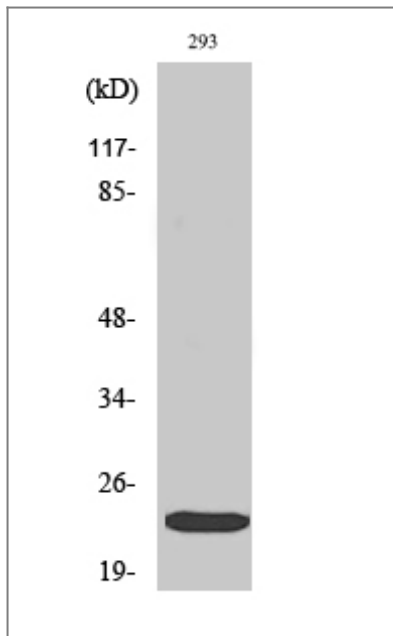
Organism	Gene ID	UniProt ID
Human	1977 ;	P06730 ;
Mouse	13684 ;	P63073 ;
Rat	117045 ;	P63074 ;

Cellular Localization Cytoplasm , P-body . Cytoplasm . Cytoplasm , Stress granule . Nucleus . Interaction with EIF4ENIF1/4E-T is required for localization to processing bodies (P-bodies) (PubMed:16157702 , PubMed:24335285 , PubMed:25923732) . Imported in the nucleus via interaction with EIF4ENIF1/4E-T via a piggy-back mechanism (PubMed:10856257) . .

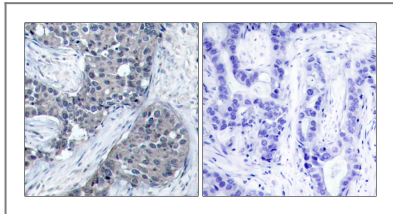
Tissue specificity Brain ,Fetal brain ,Placenta ,Pooled ,Small intestine ,Testis ,

Function Caution:Was originally thought to be phosphorylated on Ser-53 (PubMed:3112145) ; this was later shown to be wrong (PubMed:7665584) . ,Function:Recognizes and binds the 7-methylguanosine-containing mRNA cap during an early step in the initiation of protein synthesis and facilitates ribosome binding by inducing the unwinding of the mRNAs secondary structures. ,PTM:Phosphorylation increases the ability of the protein to bind to mRNA caps and to form the eIF4F complex. ,similarity:Belongs to the eukaryotic initiation factor 4E family. ,subunit:eIF4F is a multi-subunit complex , the composition of which varies with external and internal environmental conditions. It is composed of at least EIF4A , EIF4E and EIF4G1/EIF4G3. EIF4E is also known to interact with other partners. The interaction with EIF4ENIF1 mediates the import into the nucleus. Nonphosphorylated EIF4EBP1 , EIF4EBP2 and EIF4EBP3 compete with EIF4G1/EIF4G3 to interact with EIF4E; insulin stimulated MAP-kinase (MAPK1 and MAPK3) phosphorylation of EIF4EBP1 causes dissociation of the complex allowing EIF4G1/EIF4G3 to bind and consequent initiation of translation. Rapamycin can attenuate insulin stimulation , mediated by FKBP. Interacts mutually exclusive with EIF4A1 and EIF4A2. Interacts with NGDN and PIWIL2 (By similarity) . Interacts with Lassa virus Z protein. ,

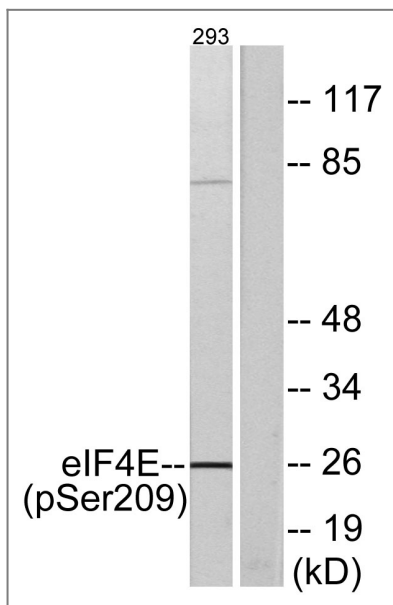
Validation Data



Western Blot analysis of various cells using Phospho-eIF4E (S209) Polyclonal Antibody



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using eIF4E (Phospho-Ser209) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from 293 cells treated with Anisomycin 25ug/ml 30', using eIF4E (Phospho-Ser209) Antibody. The lane on the right is blocked with the phospho peptide.

Contact information

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eIF4E (Phospho Ser209) Rabbit pAb

