

## Anti-Phospho-eIF4E (Ser209) Rabbit pAb

Purified Rabbit Polyclonal Antibody

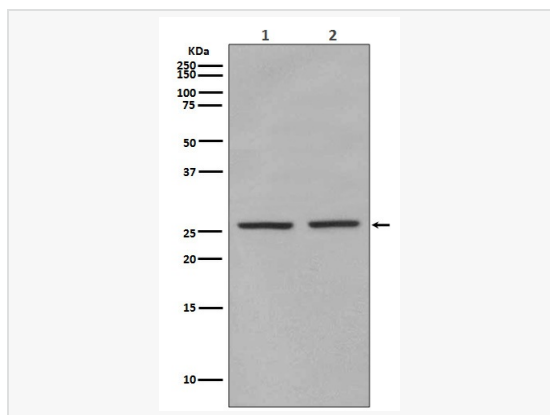
Catalog # P010154

### Product Information

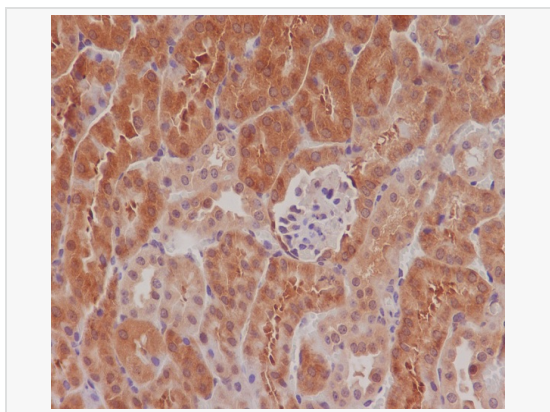
|             |                                                                                                                                                           |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application | WB, IHC-P/IF (Tissue-P), ICC/IF (Cell), IP, ELISA                                                                                                         |
| Reactivity  | Human, Mouse, Rat                                                                                                                                         |
| Dilution    | WB 1:500~1:1,000; IHC-P 1:50~1:100; IF 1:50~1:200; IP 1:20                                                                                                |
| Host        | Rabbit                                                                                                                                                    |
| Clonality   | Polyclonal                                                                                                                                                |
| Isotype     | IgG                                                                                                                                                       |
| Label       | Unconjugated                                                                                                                                              |
| Immunogen   | A synthesized peptide derived from human Phospho-eIF4E (S209)                                                                                             |
| Format      | Buffer System: Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.<br>Purification: Affinity Chromatography |
| Storage     | Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.                               |
| Precautions | Anti-Phospho-eIF4E (Ser209) antibody is for research use only and not for use in diagnostic or therapeutic procedures.                                    |

### Protein Information

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Synonyms      | EIF4E, EIF4EL1, EIF4F, Eukaryotic translation initiation factor 4E, eIF-4E, eIF4E, eIF-4F 25 kDa subunit, mRNA cap-binding protein.                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Calculated MW | Calculated MW: 25 kDa; Observed MW: 25 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Uniprot ID    | P06730                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Gene ID       | 1977                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 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. |



Western blot analysis of eIF4E (Phospho-S209) in (1) HEK293 lysates; (2) mouse spleen lysates using Phospho-eIF4E (Ser209) antibody.



Immunohistochemistry analysis of paraffin-embedded mouse kidney using Phospho-eIF4E (S209) antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.