

4E-BP1 (Phospho Thr69) Rabbit pAb

CatalogNo: YP0003 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Mouse,Rat

Applications

- WB,IHC,IF,ELISA

MW

- 13kD (Calculated)
12kD (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 mouse 4E-BP1 around the phosphorylation site of Thr69. AA range:35-84

Specificity

Phospho-4E-BP1 (T69) Polyclonal Antibody detects endogenous levels of 4E-BP1 protein only when phosphorylated at T69. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):AKtPP

Target Information

Gene name EIF4EBP1

Protein Name Eukaryotic translation initiation factor 4E-binding protein 1

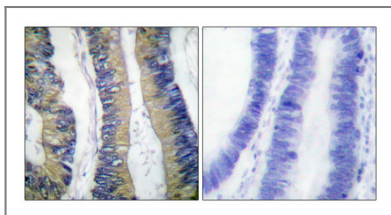
Organism	Gene ID	UniProt ID
Human	1978;	Q13541;
Mouse	13685;	Q60876;
Rat	116636;	Q62622;

Cellular Localization Nucleus

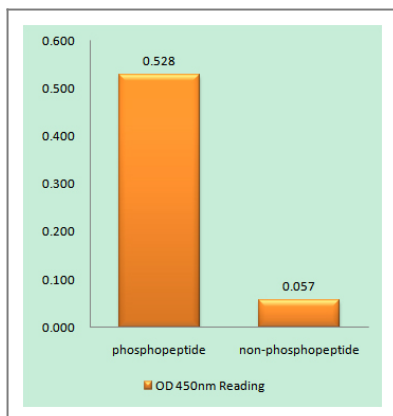
Tissue specificity Colon ,Epithelium ,Lung ,Placenta ,Platelet ,

Function Function:Regulates eIF4E activity by preventing its assembly into the eIF4F complex. Mediates the regulation of protein translation by hormones , growth factors and other stimuli that signal through the MAP kinase pathway. ,PTM:Phosphorylated on serine and threonine residues in response to insulin , EGF and PDGF. Phosphorylated upon DNA damage , probably by ATM or ATR. ,similarity:Belongs to the eIF4E-binding protein family. ,subunit:Nonphosphorylated EIF4EBP1 competes 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. ,

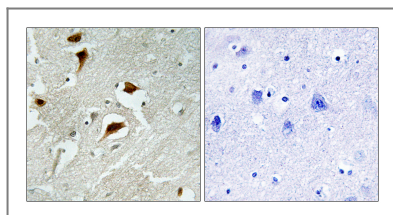
Validation Data



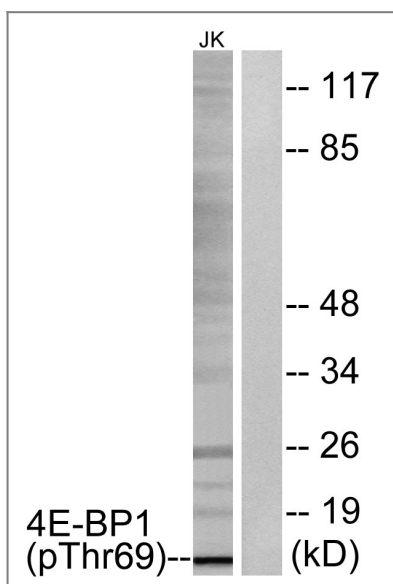
Immunohistochemical analysis of paraffin-embedded Human colon cancer. Antibody was diluted at 1:100 (4°C overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using 4E-BP1 (Phospho-Thr69) Antibody



Immunohistochemistry analysis of paraffin-embedded human brain carcinoma, using 4E-BP1 (Phospho-Thr69) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from Jurkat cells treated with EGF 200ng/ml 30', using 4E-BP1 (Phospho-Thr69) Antibody. The lane on the right is blocked with the phospho peptide.

Contact information

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4E-BP1 (Phospho Thr69) Rabbit pAb