



4E-BP1 (phospho Thr69) Polyclonal Antibody

Catalog No	YP-Ab-03509
Isotype	IgG
Reactivity	Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	EIF4EBP1
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.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/20000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	EIF4EBP1;2C3F3;4E BP1;4E-BP1;BP 1;Eukaryotic translation initiation factor 4E-binding protein 1;eIF4E-binding protein 1;Phosphorylated heat- and acid-stable protein regulated by insulin 1;PHAS-I
Observed Band	12kD
Calculated Molecular Weight	12kD
Cell Pathway	
Tissue Specificity	
Function	
Background	EIF4EBP1 encodes one member of a family of translation repressor proteins. The eukaryotic translation initiation factor 4E binding protein 1 directly interacts with eukaryotic translation initiation factor 4E (eIF4E), which is a limiting component of the multisubunit complex that recruits 40S ribosomal subunits to the 5' end of mRNAs. Interaction of this protein with eIF4E inhibits complex assembly and represses translation. This protein is phosphorylated in response to various signals including UV irradiation and insulin signaling, resulting in its



dissociation from eIF4E and activation of mRNA translation.

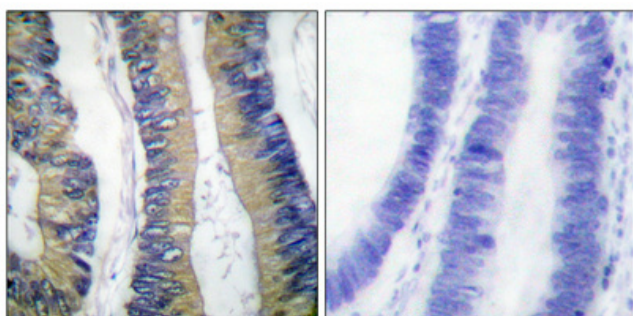
matters needing attention

Avoid repeated freezing and thawing!

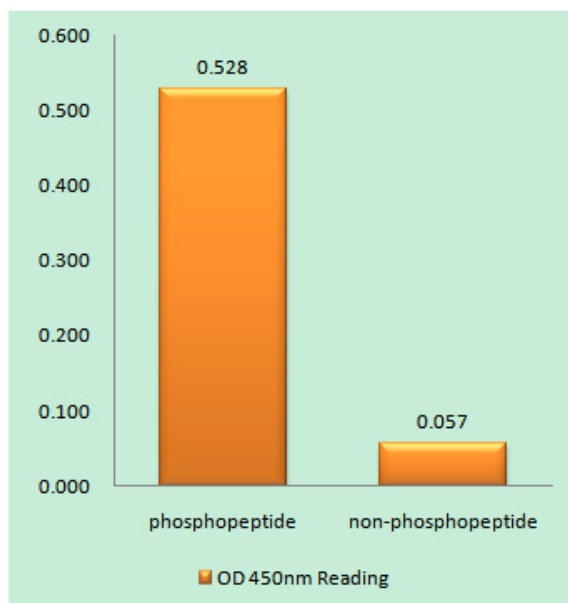
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

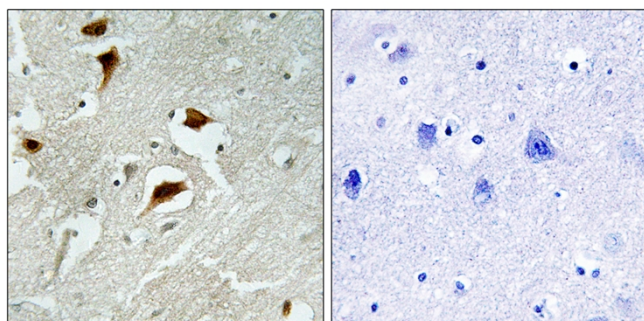
Products Images



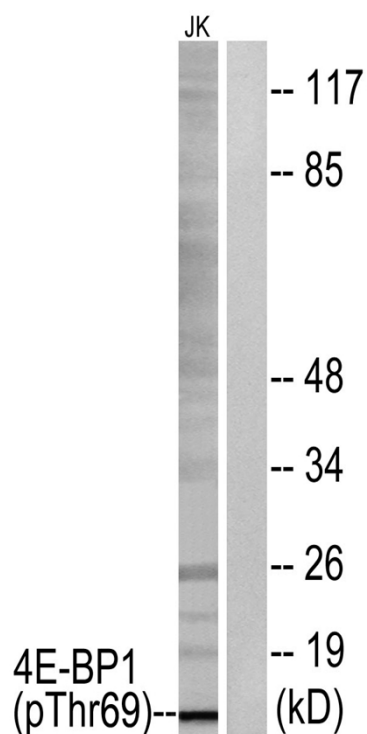
Immunohistochemical analysis of paraffin-embedded Human colon cancer. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA, pH8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.



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 phosphopeptide.



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.