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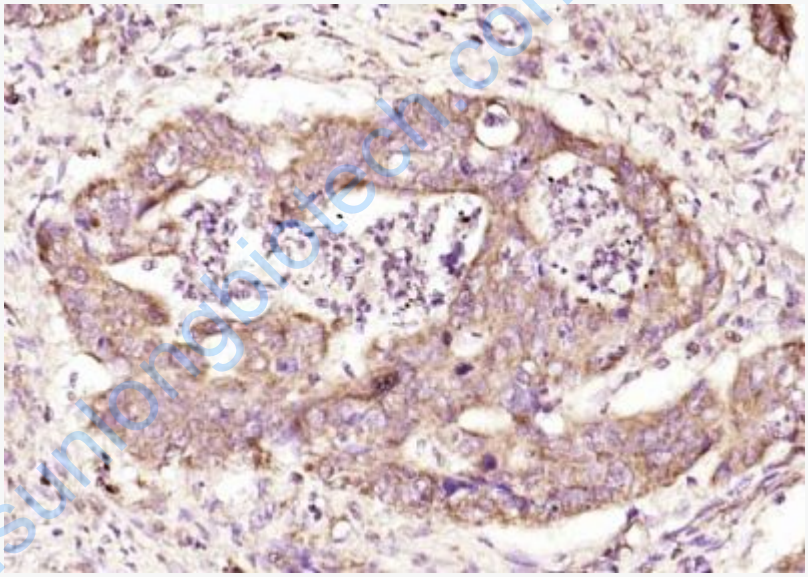
Rabbit Anti-phospho-eIF4EBP1 (Thr36) antibody

SL6420R

Product Name:	phospho-eIF4EBP1 (Thr36)
Chinese Name:	磷酸化eIF4EBinding protein1抗体
Alias:	eIF4EBP1 (phospho T36); eIF4EBP1 (phospho Thr36); p-eIF4EBP1 (Thr36); eIF4EBP1; Eukaryotic translation initiation factor 4E binding protein 1; Eukaryotic translation initiation factor 4E-binding protein 1; 4E BP1; 4EBP1; BP 1; BP1; eIF4E binding protein 1; eIF4E-binding protein 1; Eukaryotic translation initiation factor 4E binding protein 1; MGC4316; PHAS I; PHASI; PHAS-I; PHAS; 4E-BP1; Phosphorylated heat- and acid-stable protein regulated by insulin 1; Phosphorylated heat and acid stable protein regulated by insulin 1; 4EBP1_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	13kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthesised phosphopeptide derived from human eIF4EBP1 around the phosphorylation site of Thr36:YS(p-T)TP
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

PubMed:	PubMed
Product Detail:	This gene encodes one member of a family of translation repressor proteins. The protein 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. [provided by RefSeq, Jul 2008]. **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 and mTORC1 pathways. **Subunit:** Nonphosphorylated EIF4EBP1 competes with EIF4G1/EIF4G3 to interact with EIF4E; insulin stimulated MAP-kinase (MAPK1 and MAPK3) or mTORC1 phosphorylation of EIF4EBP1 causes dissociation of the complex allowing EIF4G1/EIF4G3 to bind and consequent initiation of translation. Interacts with RPTOR. **Post-translational modifications:** Phosphorylated on serine and threonine residues in response to insulin, EGF and PDGF. Phosphorylation at Thr-37, Thr-46, Ser-65 and Thr-70 is regulated by mTORC1. **Similarity:** Belongs to the eIF4E-binding protein family. **SWISS:** Q13541 **Gene ID:** 1978 **Database links:** Entrez Gene: 1978 Human Entrez Gene: 13685 Mouse Entrez Gene: 116636 Rat Omim: 602223 Human SwissProt: Q13541 Human SwissProt: Q60876 Mouse

	SwissProt: Q62622 Rat Unigene: 411641 Human Unigene: 6700 Mouse Unigene: 11161 Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	 Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); 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-eIF4EBP1 (Thr36)) Polyclonal Antibody, Unconjugated (SL6420R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.