

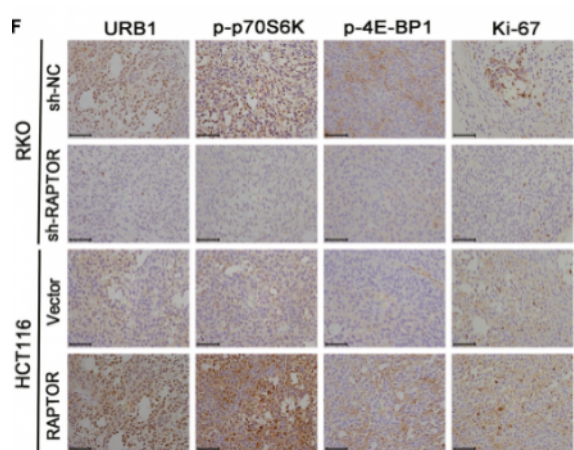
4E-BP1 (phospho Ser65) Polyclonal Antibody

Catalog No :	YP0618
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	4E-BP1
Fields :	>>EGFR tyrosine kinase inhibitor resistance;>>ErbB signaling pathway;>>HIF-1 signaling pathway;>>mTOR signaling pathway;>>PI3K-Akt signaling pathway;>>AMPK signaling pathway;>>Longevity regulating pathway;>>Cellular senescence;>>Insulin signaling pathway;>>Human cytomegalovirus infection;>>Human papillomavirus infection;>>Herpes simplex virus 1 infection;>>Chemical carcinogenesis - receptor activation;>>Acute myeloid leukemia;>>Choline metabolism in cancer
Gene Name :	EIF4EBP1
Protein Name :	Eukaryotic translation initiation factor 4E-binding protein 1
Human Gene Id :	1978
Human Swiss Prot No :	Q13541
Mouse Gene Id :	13685
Mouse Swiss Prot No :	Q60876
Rat Gene Id :	116636
Rat Swiss Prot No :	Q62622
Immunogen :	The antiserum was produced against synthesized peptide derived from human 4E-BP1 around the phosphorylation site of Ser64. AA range:30-79
Specificity :	Phospho-4E-BP1 (S64) Polyclonal Antibody detects endogenous levels of 4E-BP1 protein only when phosphorylated at S64. Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

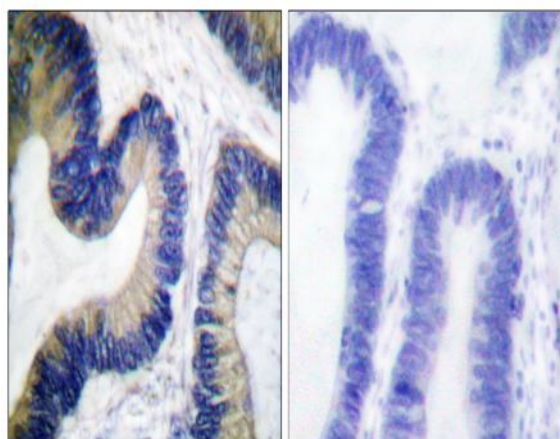
Formulation :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	15kD
Cell Pathway :	Regulates Angiogenesis; Insulin Receptor; mTOR; ErbB/HER; PI3K/Akt; AMPK
Background :	eukaryotic translation initiation factor 4E binding protein 1(EIF4EBP1) Homo sapiens 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 :	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.,
Subcellular Location :	nucleoplasm,cytoplasm,cytosol,protein complex,
Expression :	Colon,Epithelium,Lung,Placenta,Platelet,
Tag :	orthogonal
Sort :	311

No2 :	9451T
No4 :	1
Host :	Rabbit
Modifications :	Phospho

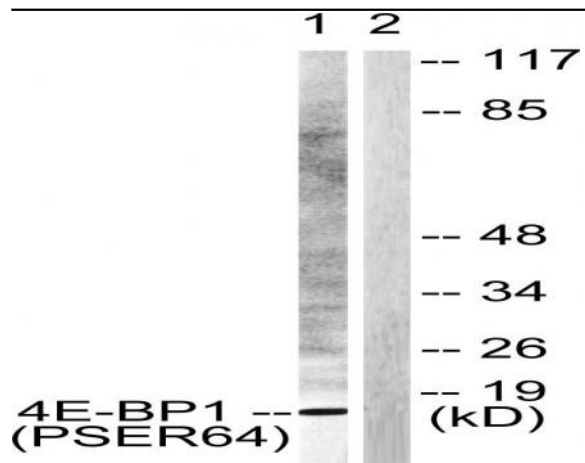
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Wang, Tao, et al. "RAPTOR promotes colorectal cancer proliferation by inducing mTORC1 and upregulating ribosome assembly factor URB1." *Cancer medicine* 9.4 (2020): 1529-1543.



Immunohistochemistry analysis of paraffin-embedded human colon carcinoma, using 4E-BP1 (Phospho-Ser64) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from Jurkat cells treated with Insulin 0.01U/ml 15', using 4E-BP1 (Phospho-Ser64) Antibody. The lane on the right is blocked with the phospho peptide.