Data Sheet (Cat.No.TMAC-00016)

Anti-Phospho-4EBP1 (Ser65) Polyclonal Antibody

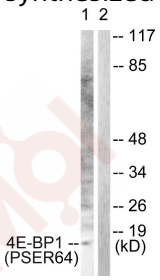
Product Details

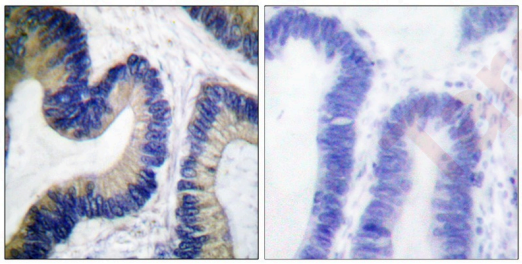
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Actual: 15 kDa.
Purification:	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.

Applications

Verified Activity:

1. Western blot analysis of extracts from Jurkat cells, treated with Insulin (0.01U/ml, 15mins), using 4E-BP1 (Phospho-Ser64) antibody TMAC-00016. The lane on the right is treated with the synthesized peptide.
2. Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue using 4E-BP1 (Phospho-Ser64) antibody TMAC-00016. The picture on the right is treated with the synthesized peptide.





Application:	IHC,WB
Recommended	WB: 1:500-3000; IHC: 1:50-100

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Peptide sequence around phosphorylation site of serine 64 (R-N-S(p)-P-V) derived from Human 4E-BP1
Antigen Species:	human
Uniprot ID:	Q13541
Synonyms:	p-4EBP1 (S65);p-4EBP1 (Ser65);4EBP1 (p-S65);4EBP1 (p-Ser65)

Research Background

Regulates eIF4E activity by preventing its assembly into the eIF4F complex: hypophosphorylated form competes with EIF4G1/EIF4G3 and strongly binds to EIF4E, leading to repress translation. Mediates the regulation of protein translation by hormones, growth factors and other stimuli that signal through the MAP kinase and mTORC1 pathways.

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