

eIF4EBP1 Antibody

Rabbit mAb Catalog # AP91014

Product Information

Application	WB, IHC, IF, FC, ICC, IP, IHF
Primary Accession	Q13541
Clonality	Rat, Human, Mouse
Other Names	Monoclonal
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	12580

Additional Information

Dilution	WB 1:1000~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:50 FC 1:50
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human eIF4EBP1
Description	Translation repressor protein 4E-BP1 (also known as PHAS-1) inhibits
•	cap-dependent translation by binding to the translation initiation factor eIF4E.
	Hyperphosphorylation of 4E-BP1 disrupts this interaction and results in
	activation of cap-dependent translation. Both the PI3 kinase/Akt pathway and
	FRAP/mTOR kinase regulate 4E-BP1 activity.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium
	azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term.
	Avoid freeze / thaw cycle.

Protein Information

Name	EIF4EBP1
Function	Repressor of translation initiation that 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. In contrast, hyperphosphorylated form dissociates from EIF4E, allowing interaction between EIF4G1/EIF4G3 and EIF4E, leading to initiation of translation. Mediates the regulation of protein translation by hormones, growth factors and other stimuli that signal through the MAP kinase and mTORC1 pathways.
Cellular Location	Cytoplasm. Nucleus. Note=Localization to the nucleus is unaffected by phosphorylation status. {ECO:0000250 UniProtKB:Q60876}

Images



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