

Immunotag™ Phospho-4E-BP1 (Thr36) Antibody

Antibody Specification	
Catalog No.	ITA1200
Product Description	Immunotag™ Phospho-4E-BP1 (Thr36) Antibody
Size	100 µg, 200 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	Phospho-4E-BP1 (Thr36)
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC,IF/ICC,ELISA
Recommended Dilution	WB 1:500-1:2000 IHC 1:50-1:200, IF/ICC 1:100-1:500
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	A synthesized peptide derived from human 4E-BP1 around the phosphorylation site of Threonine 36
Specificity	Phospho-4E-BP1 (Thr36) Antibody detects endogenous levels of 4E-BP1 only when phosphorylated at Threonine 36
Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt
Gene Name	EIF4EBP1
Accession No.	Q13541
Alternate Names	4E-BP1; 4EBP1; 4EBP1_HUMAN; BP 1; eIF4E binding protein 1; eIF4E-binding protein 1; Eif4ebp1; Eukaryotic translation initiation factor 4E-binding protein 1; PHAS-I; PHASI; Phosphorylated heat- and acid-stable protein regulated by insulin 1;

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Description	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.
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	18kDa
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.