

4E-BP1 Antibody | anti-4E-BP1 antibody

4E-BP1 (Phospho-Thr45) Antibody

CATALOG # AAA111041	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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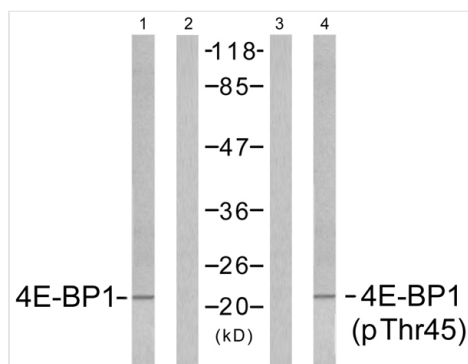
PRODUCT SYNONYMS

4E-BP1; 4E-BP1 (Phospho-Thr45) Antibody; 4EBP1; EIF4EBP1; Eukaryotic translation initiation factor 4E binding protein 1; Insulin-stimulated EIF-4E binding protein PHAS-I; P/OKCL6; PHAS-1; PHAS-I; anti-4E-BP1 antibody

PRODUCT SPECIFICATIONS

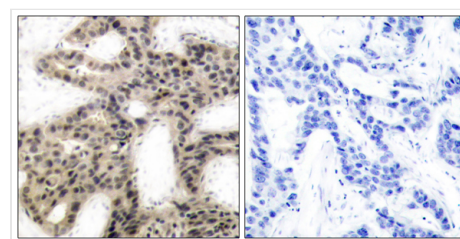
Reactivity	Human, Mouse, Rat
Specificity	4E-BP1 (phospho-Thr45) antibody detects endogenous levels of 4E-BP1 only when phosphorylated at threonine 45. This antibody may cross-react with 4E-BP2 and 4E-BP3 when phosphorylated at equivalent sites.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
Form/Format	In phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Sequence Length	118
Applicable Applications for anti-4E-BP1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	The antiserum was produced against synthesized phosphopeptide derived from human 4E-BP1 around the phosphorylation site of threonine 45 (S-T-TP-P-G).
All Sites	Human: Thr45 or Thr46 Mouse: Thr44 Rat: Thr44
Preparation and Storage	Store at -20 degree C for 1 year

IMAGES



WB (Western Blot)

Western blot analysis of extracts from MDA435 cells untreated or treated with EGF (200nm, 5min), using 4E-BP1 (Ab-45) antibody and 4E-BP1 (phospho-Thr45) antibody.



IHC (Immunohistochemistry)

P-Peptide-+ Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using 4E-BP1 (phospho-Thr45) antibody.

ADDITIONAL INFORMATION

Product Categories/Family for anti-4E-BP1 antibody	Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells
References	Gingras AC, et al. (1998) Genes Dev 12(4): 502-513. Brugarolas J, et al. (2004) Genes Dev 18(23): 2893-2904. Kumar V, et al. (2000) EMBO J 19(5): 1087-1097. Moody CA, et al. (2005) J Virol 79(9): 5499-5506. Burnett PE, et al. (1998) Proc Natl Acad Sci U S A 95(4): 1432-1437.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758258
NCBI GeneID	1978
NCBI Accession #	NP_004086.1
NCBI GenBank Nucleotide #	NM_004095.3
UniProt Accession #	Q13541; Q6IBN3; B2R502; D3DSW8
Molecular Weight	12,580 Da
NCBI Official Full Name	eukaryotic translation initiation factor 4E-binding protein 1
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 4E binding protein 1
NCBI Official Symbol	EIF4EBP1
NCBI Official Synonym Symbols	BP-1; 4EBP1; 4E-BP1; PHAS-I
NCBI Protein Information	eukaryotic translation initiation factor 4E-binding protein 1
UniProt Protein Name	Eukaryotic translation initiation factor 4E-binding protein 1
UniProt Gene Name	EIF4EBP1
UniProt Synonym Gene Names	4E-BP1; eIF4E-binding protein 1; PHAS-I

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.