



## 4E-BP1 (Phospho-Thr45) Antibody

E11-7002A

**Catalog Number:** E11-7002A

**Amount:** 100µg/100µl

**Swiss-Prot No. :** Q13541

**All Names:** 4EBP1, EIF4EBP1, Eukaryotic translation initiation factor 4E binding protein 1, Insulin-stimulated EIF-4E binding protein PHAS-I, P/OKCL6, PHAS-1, PHAS-I

**All Sites:** Human: Thr45 or Thr46; Mouse: Thr44; Rat: Thr44

**Form of Antibody:** Rabbit IgG in phosphate buffered saline (without  $Mg^{2+}$  and  $Ca^{2+}$ ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

**Storage/Stability:** Store at -20°C/1 year

**Immunogen:** The antiserum was produced against synthesized phosphopeptide derived from human 4E-BP1 around the phosphorylation site of threonine 45 (S-T-T<sup>P</sup>-P-G).

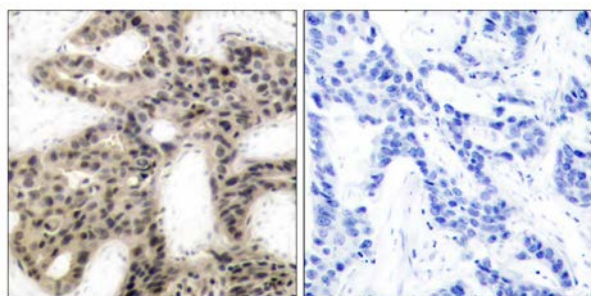
**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.

**Specificity/Sensitivity:** 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.

**Reactivity:** Human, Mouse, Rat

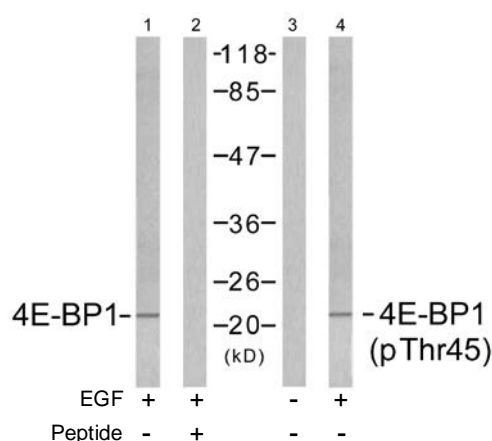
**Applications:** WB: 1:500~1:1000 IHC: 1:50~1:100  
ELISA: 1:20000

**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.



P-Peptide - +

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



Western blot analysis of extracts from MDA435 cells untreated or treated with EGF (200nm, 5mins), using 4E-BP1 (Ab-45) antibody (Line1 and 2) and 4E-BP1 (phospho-Thr45) antibody (Line 3 and 4).

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