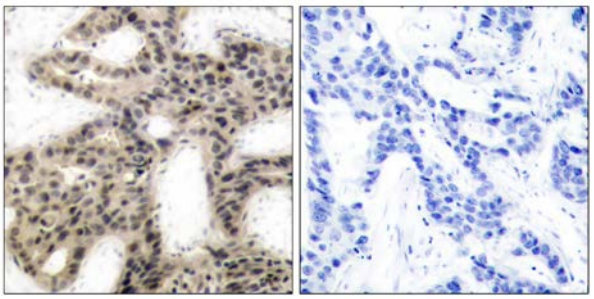
E011223

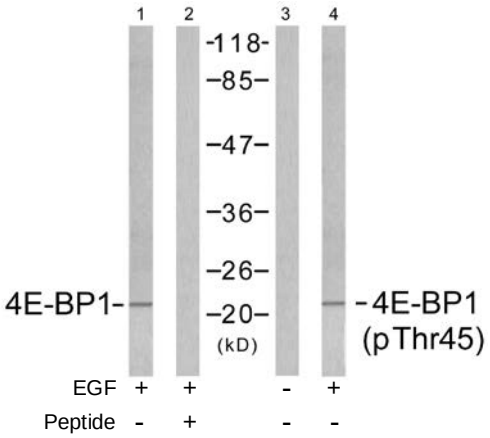
4E-BP1 (Phospho-Thr45) Antibody

Catalog Number: E011223-1, E011223-2
Amount: 50μg/50μl, 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/OKCL.6, 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^P-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
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 (E011223).



Western blot analysis of extracts from MDA435 cells untreated or treated with EGF (200nm, 5min), using 4E-BP1 (Ab-45) antibody (E021216, Lane1 and 2) and 4E-BP1 (phospho-Thr45) antibody (E011223, Lane 3 and 4).

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