



## 4E-BP1 (Phospho-Ser64) Antibody

E11-0401A

**Catalog Number:** E11-0401A

**Amount:** 100 $\mu$ g/100 $\mu$ l

**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: Ser64; Mouse: Ser63; Rat: Ser63

**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 serine 64 (R-N-S<sup>P</sup>-P-V).

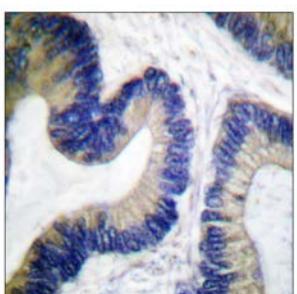
**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.

**Specificity/Sensitivity:** 4E-BP1 (Phospho-Ser64) antibody detects endogenous levels of 4E-BP1 only when phosphorylated at serine 64.

**Reactivity:** Human, Mouse, Rat

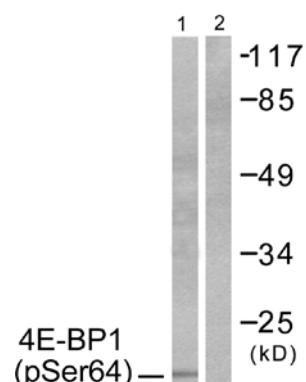
**Applications:** WB: 1:500~1:1000      IHC: 1:50~1:100  
ELISA: 1:1000

**References:** Anne-Claude Gingras, Genes & Dev., Jun 1999; 13: 1422.  
Guangming Liu, J. Biol. Chem., Mar 2002; 277: 8810 - 8816.  
Ya-Ping Jiang, J. Biol. Chem., Mar 2001; 276: 10943 - 10951.  
Anne-Claude Gingras, Genes & Dev., Feb 1998; 12: 502.



P-peptide      -      +

Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue using 4E-BP1 (Phospho-Ser64) antibody (#A0401).



Western blot analysis of extracts from Jurkat cells, treated with Insulin (0.01U/ml, 15mins), using 4E-BP1 (Phospho-Ser64) antibody (#A0401).