



# 4E-BP1 rabbit pAb

Cat No.:ES5080

For research use only

## Overview

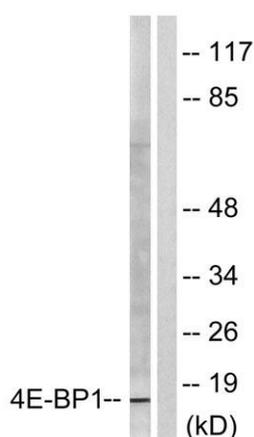
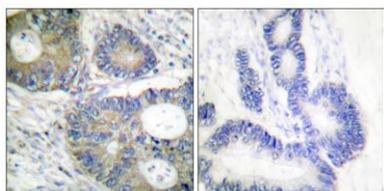
|                                 |   |
|---------------------------------|---|
| <b>Product Name</b>             | 4E-BP1 rabbit pAb   |
| <b>Host species</b>             | Rabbit  |
| <b>Applications</b>             | WB;IHC;IF;ELISA   |
| <b>Species Cross-Reactivity</b> | Human;Mouse;Rat   |
| <b>Recommended dilutions</b>    | Western Blot: 1/500 - 1/2000.<br>Immunohistochemistry: 1/100 - 1/300. ELISA:<br>1/5000. Not yet tested in other applications.   |
| <b>Immunogen</b>                | The antiserum was produced against synthesized peptide derived from human 4E-BP1. AA range:30-79  |
| <b>Specificity</b>              | 4E-BP1 Polyclonal Antibody detects endogenous levels of 4E-BP1 protein.   |
| <b>Formulation</b>              | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.   |
| <b>Storage</b>                  | Store at -20°C. Avoid repeated freeze-thaw cycles.  |
| <b>Protein Name</b>             | Eukaryotic translation initiation factor 4E-binding protein 1   |
| <b>Gene Name</b>                | EIF4EBP1  |
| <b>Cellular localization</b>    | nucleoplasm,cytoplasm,cytosol,protein complex,  |
| <b>Purification</b>             | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.   |
| <b>Clonality</b>                | Polyclonal  |
| <b>Concentration</b>            | 1 mg/ml   |
| <b>Observed band</b>            | 15kD  |
| <b>Human Gene ID</b>            | 1978  |
| <b>Human Swiss-Prot Number</b>  | Q13541  |
| <b>Alternative Names</b>        | EIF4EBP1; Eukaryotic translation initiation factor 4E-binding protein 1; 4E-BP1; eIF4E-binding protein 1; Phosphorylated heat- and acid-stable protein regulated by insulin 1; PHAS-I |
| <b>Background</b>               | eukaryotic translation initiation factor 4E binding protein 1(EIF4EBP1) Homo sapiens This gene  |





encodes one member of a family of translation repressor proteins. The protein directly interacts with eukaryotic translation initiation factor 4E (eIF4E), which is a limiting component of the multisubunit complex that recruits 40S ribosomal subunits to the 5' end of mRNAs. Interaction of this protein with eIF4E inhibits complex assembly and represses translation. This protein is phosphorylated in response to various signals including UV irradiation and insulin signaling, resulting in its dissociation from eIF4E and activation of mRNA translation. [provided by RefSeq, Jul 2008],

Immunohistochemistry analysis of paraffin-embedded human colon carcinoma tissue, using 4E-BP1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from Jurkat cells, treated with Insulin 0.01U/ml 15', using 4E-BP1 Antibody. The lane on the right is blocked with the synthesized peptide.

