# Phospho-4E-BP1 (Thr45) Ab

| Cat.#: AF3432 | Concn.: 1mg/ml | Mol.Wt.: 18kDa |
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| Size: 100ul,200ul | Source: Rabbit | Clonality: Polyclonal |

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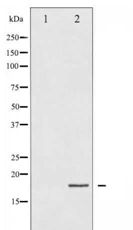
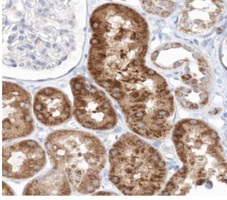
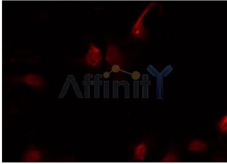
| Application: | WB 1:500-1:2000 IHC 1:50-1:200, IF/ICC 1:100-1:500 |
| Reactivity: | Human,Mouse,Rat |
| Purification: | The Ab is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns. |
| Specificity: | Phospho-4E-BP1 (Thr45) Ab detects endogenous levels of 4E-BP1 only when phosphorylated at Threonine 45. |
| Immunogen: | A synthesized peptide derived from human 4E-BP1 around the phosphorylation site of Threonine 45. |
| Uniprot: | Q13541 |
| Description: | 4E-BP1 binds to eIF4E, preventing its assembly into the EIF4F complex and inhibiting cap-dependent translation. Phosphorylation of 4E-BP1 disrupts this binding, activating cap-dependent translation. |
| Similarity: | The TOS motif mediates interaction with RPTOR, leading to promote phosphorylation by mTORC1 complex.Belongs to the eIF4E-binding protein family. |
| Storage Condition and Buffer: | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt. |




Western blot analysis of 4E-BP1 phosphorylation expression in EGF treated MDA-MB-435 whole cell lysates,The lane on the left was treated with the antigen-specific peptide.



AF3432 at 1/200 staining human kidney carcinoma tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.



AF3432 staining Hela by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary Ab was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary Ab.

*IMPORTANT:* For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.

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