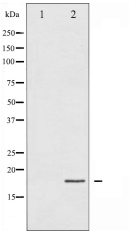
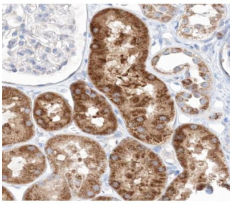
Phospho-4E-BP1 (Thr45) Ab

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

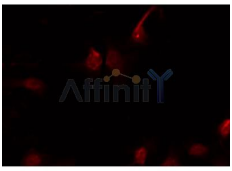
Application:	WB 1:500-1:2000 IHC 1:50-1:200, IF/ICC 1:100-1:500
Reactivity:	Human,Mouse,Rat
Purification:	The Ab is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Specificity:	Phospho-4E-BP1 (Thr45) Ab detects endogenous 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 is 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.