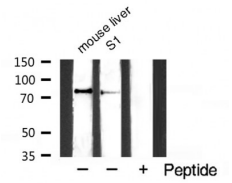
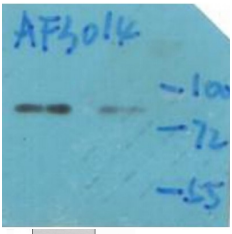
Phospho-IKK alpha (Ser176) /IKK beta (Ser177) Ab

Cat.#: AF3014	Concn.: 1mg/ml	Mol.Wt.: 85kDa
Size: 100ul,200ul	Source: Rabbit	Clonality: Polyclonal

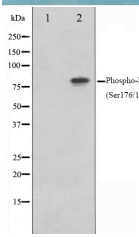
Application:	WB 1:500-1:2000 IHC 1:50-1:200, IF/ICC 1:100-1:500
Reactivity:	Human,Mouse,Rat
Purification:	The Ab is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Specificity:	Phospho-IKK- alpha (Ser176) /IKK- beta (Ser177) Ab detects endogenous levels of IKK- alpha /IKK- beta only when phosphorylated at Serine 177.
Immunogen:	A synthesized peptide derived from human IKK- alpha /IKK- beta around the phosphorylation site of Serine 177.
Uniprot:	O15111/O14920
Description:	IKK-beta a kinase of the IKK family. Phosphorylates inhibitors of NF-kappa-B thus leading to the dissociation of the inhibitor/NF-kappa-B complex and ultimately the degradation of the inhibitor. Preferentially found as a heterodimer with IKK-alpha but also as an homodimer.
Subcellular Location:	Cytoplasm. Nucleus. Shuttles between the cytoplasm and the nucleus.
Tissue Specificity:	Widely expressed.
Similarity:	The kinase domain is located in the N-terminal region. The leucine zipper is important to allow homo- and hetero-dimerization. At the C-terminal region is located the region responsible for the interaction with NEMO/IKBKG.Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. I-kappa-B kinase subfamily.
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.



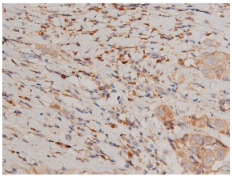
Western blot analysis of TIMP4 expression in NIH-3T3 whole cell lysates,The lane on the left is treated with the antigen-specific peptide.Western blot analysis of extracts of various celllines,using Phospho-PDK1 (Ser241) Ab .



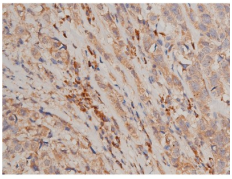
Western blot analysis of IKK alpha /IKK beta phosphorylation expression in TNF treated Hela whole cell lysates,The lane on the right is treated with the antigen-specific peptide.



Western blot analysis of IKK alpha /IKK beta phosphorylation expression in TNF treated NIH-3T3 whole cell lysates,The lane on the left is treated with the antigen-specific peptide.



AF3014 at 1/200 staining human breast cancer 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.



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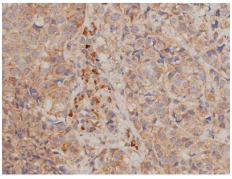

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AF3014 staining HepG2 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary Ab was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa 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.