



# IKK $\beta$ (phospho Tyr199) Polyclonal Antibody

<b>Catalog No</b>	BYab-14448
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Gene Name</b>	IKBKB
<b>Protein Name</b>	Inhibitor of nuclear factor kappa-B kinase subunit beta
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human IKK-beta around the phosphorylation site of Tyr199. AA range:166-215
<b>Specificity</b>	Phospho-IKK $\beta$ (Y199) Polyclonal Antibody detects endogenous levels of IKK $\beta$ protein only when phosphorylated at Y199.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/5000.. IF 1:50-200
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	$\geq 90\%$
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	IKBKB; IKKB; Inhibitor of nuclear factor kappa-B kinase subunit beta; I-kappa-B-kinase beta; IKK-B; IKK-beta; Ikbkb; I-kappa-B kinase 2; IKK2; Nuclear factor NF-kappa-B inhibitor kinase beta; NFKBIKB
<b>Observed Band</b>	85kD
<b>Cell Pathway</b>	Cytoplasm . Nucleus . Membrane raft . Colocalized with DPP4 in membrane rafts.
<b>Tissue Specificity</b>	Highly expressed in heart, placenta, skeletal muscle, kidney, pancreas, spleen, thymus, prostate, testis and peripheral blood.
<b>Function</b>	catalytic activity:ATP + [I-kappa-B protein] = ADP + [I-kappa-B phosphoprotein].,function:Acts as part of the IKK complex in the conventional pathway of NF-kappa-B activation and 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. Also phosphorylates NCOA3.,PTM:Ubiquitination on 'Ser-163' modulates phosphorylation on C-terminal serine residues.,PTM:Upon cytokine stimulation, phosphorylated on Ser-177 and Ser-181 by MEKK1 and/or MAP3K14/NIK; which enhances activity.

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Once activated, autophosphorylates on the C-terminal serine cluster; which decreases activity and prevents prolonged activation of the inflammatory response.,PTM:Yersinia yopJ may acetylate Ser/Thr residues, preventing phosphorylation and activation, which blocks the I-kappa-B signaling pathway.,similarity:Belongs to the p

### Background

The protein encoded by this gene phosphorylates the inhibitor in the inhibitor/NF-kappa-B complex, causing dissociation of the inhibitor and activation of NF-kappa-B. The encoded protein itself is found in a complex of proteins. Several transcript variants, some protein-coding and some not, have been found for this gene. [provided by RefSeq, Sep 2011],

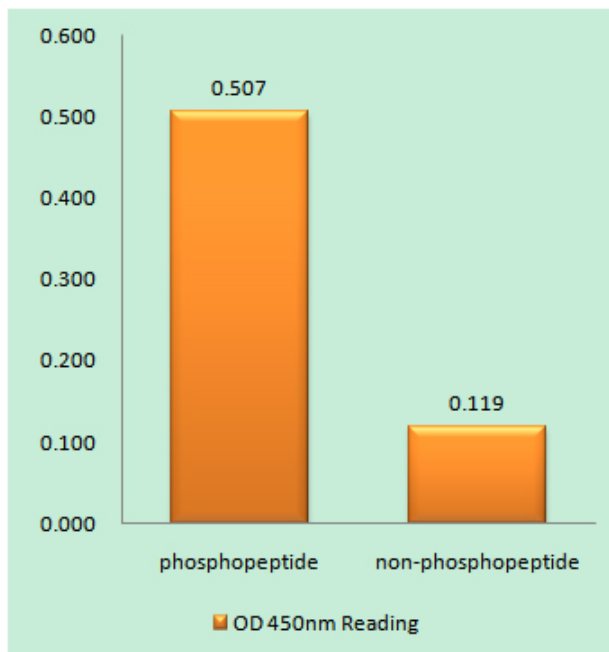
### matters needing attention

Avoid repeated freezing and thawing!

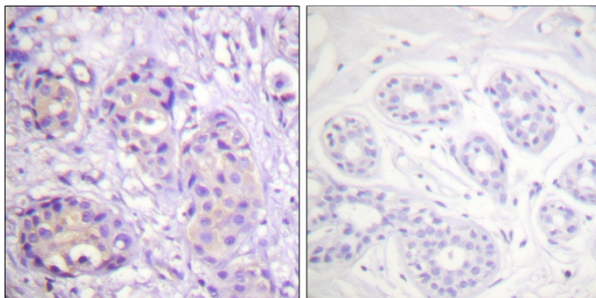
### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images

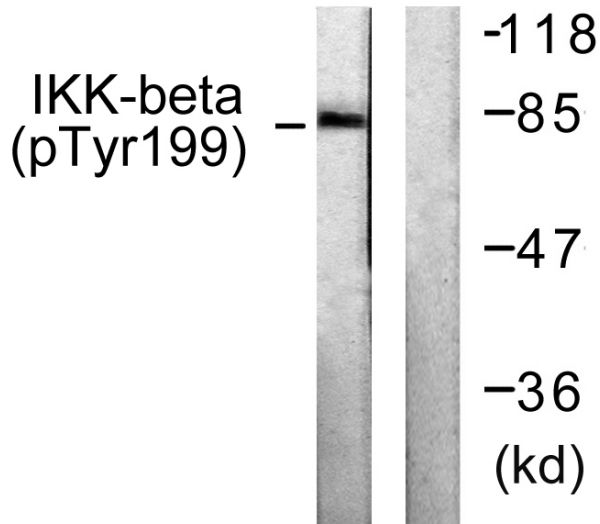


Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using IKK-beta (Phospho-Tyr199) Antibody



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using IKK-beta (Phospho-Tyr199) Antibody. The picture on the right is blocked with the phosphopeptide.

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Western blot analysis of lysates from HeLa cells treated with TNF- $\alpha$  20ng/ml+Calyculin A 50nM 5', using IKK-beta (Phospho-Tyr199) Antibody. The lane on the right is blocked with the phospho peptide.