



## IKK $\beta$ mouse mAb

<b>Catalog No</b>	YP-Ab-14216
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Rat
<b>Applications</b>	WB
<b>Gene Name</b>	ikbkb
<b>Protein Name</b>	
<b>Immunogen</b>	Purified recombinant human IKK $\beta$ protein fragments expressed in E.coli.
<b>Specificity</b>	This antibody detects endogenous levels of IKK $\beta$ and does not cross-react with related proteins.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Monoclonal, Mouse
<b>Purification</b>	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	wb 1:500
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	$\geq 90\%$
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	I kappa B kinase 2; I kappa B kinase beta; I-kappa-B kinase 2; I-kappa-B-kinase beta; IkbKB; IKK 2; IKK B; IKK beta; IKK-B; IKK-beta; IKK2; IKKB; IKKB_HUMAN; IMD15; Inhibitor of kappa light chain gene enhancer in B cells; Inhibitor of kappa light polypeptide gene enhancer in B cells; Inhibitor of kappa light polypeptide gene enhancer in B cells kinase beta; Inhibitor of kappa light polypeptide gene enhancer in B cells, kinase beta; Inhibitor of nuclear factor kappa B kinase beta subunit; Inhibitor of nuclear factor kappa B kinase subunit beta; Inhibitor of nuclear factor kappa-B kinase subunit beta; MGC131801; NFKBIKB; Nuclear factor NF kappa B inhibitor kinase beta; Nuclear factor NF-kappa-B inhibitor kinase beta; Nuclear factor of kappa light chain gene enhancer in B cells inhibitor.
<b>Observed Band</b>	87kD
<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. 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],

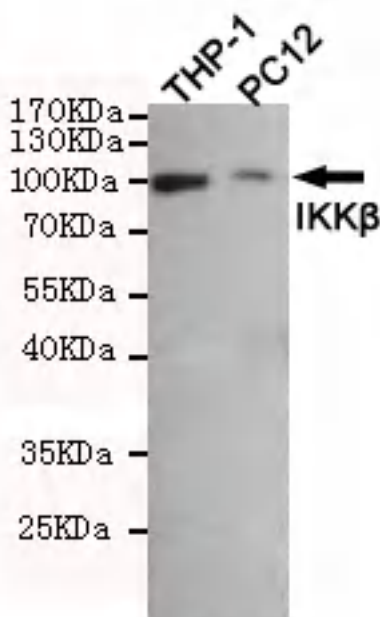
#### matters needing attention

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



Western blot detection of IKK $\beta$  in THP-1 and PC12 cell lysates using IKK $\beta$  mouse mAb (1:500 diluted). Predicted band size:87KDa. Observed band size:87KDa.