



IKK β mouse mAb

Catalog No	YP-Ab-14216
Isotype	IgG
Reactivity	Human;Rat
Applications	WB
Gene Name	ikbkb
Immunogen	Purified recombinant human IKK β protein fragments expressed in E.coli.
Specificity	This antibody detects endogenous levels of IKK β and does not cross-react with related proteins.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
Dilution	wb 1:500
Concentration	1 mg/ml
Purity	$\geq 90\%$
Storage Stability	-20°C/1 year
Synonyms	IKKB;EC:2.7.11.1;EC:2.7.11.10;I kappa B kinase 2;I kappa B kinase beta;I-kappa-B kinase 2;I-kappa-B-kinase beta;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;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;NFKBIB;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.
Observed Band	87kD
Calculated Molecular Weight	87kD
Cell Pathway	Cytoplasm . Nucleus . Membrane raft . Colocalized with DPP4 in membrane rafts. .
Tissue Specificity	Highly expressed in heart, placenta, skeletal muscle, kidney, pancreas, spleen, thymus, prostate, testis and peripheral blood.



Function

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],

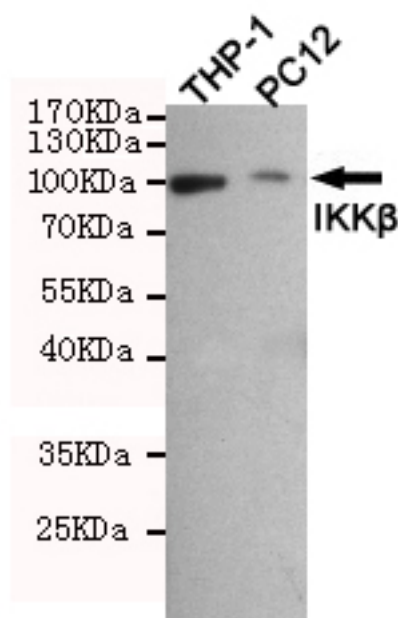
matters needing attention

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 β in THP-1 and PC12 cell lysates using IKK β mouse mAb (1:500 diluted). Predicted band size:87KDa.Observed band size:87KDa.