



IKK β Monoclonal Antibody

Catalog No	YP-mAb-14782
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	IKBKB
Immunogen	The antiserum was produced against synthesized peptide derived from human IKK-beta. AA range:166-215
Specificity	IKK β Monoclonal Antibody detects endogenous levels of IKK β protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	IHC: 1/100 - 1/300.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	IKBKB;EC:2.7.11.1;EC:2.7.11.10;I kappa B kinase 2;I kappa B kinase beta;Inhibitor of nuclear factor kappa-B kinase subunit beta;IKKB;I-kappa-B-kinase beta;IKK-B;IKK-beta;I-kappa-B kinase 2;IKK2;Nuclear factor NF-kappa-B inhibitor kinase beta;NFKB1KB
Observed Band	86kD
Calculated Molecular Weight	86kD
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

