



IKK β Monoclonal Antibody

Catalog No	YP-Ab-14161
Isotype	IgG
Reactivity	Human
Applications	WB;IHC;IF;ELISA
Gene Name	IKBKB
Immunogen	Purified recombinant fragment of IKK β expressed in E. Coli.
Specificity	IKK β Monoclonal Antibody detects endogenous levels of IKK β protein.
Formulation	Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol.
Source	Monoclonal, Mouse
Purification	Affinity purification
Dilution	WB: 1/500 - 1/2000. IHC: 1/200 - 1/1000. ELISA: 1/10000.. IF 1:50-200
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;NFKBIB
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],

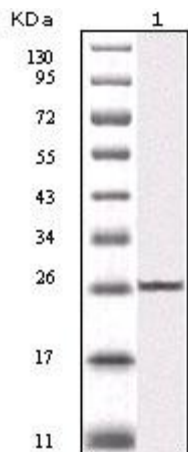
matters needing attention

Avoid repeated freezing and thawing!

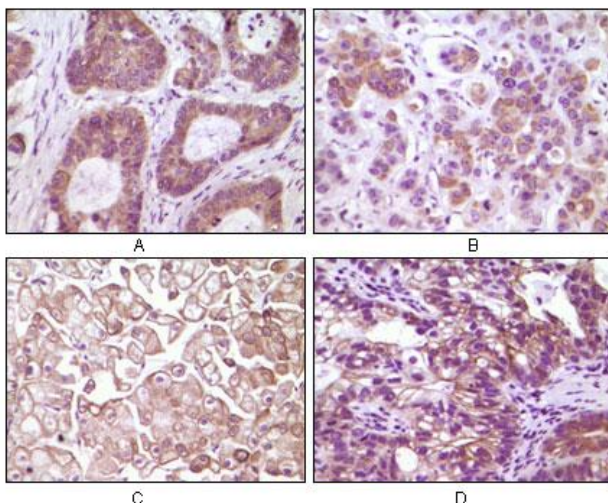
Usage suggestions

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

Products Images



Western Blot analysis using IKK β Monoclonal Antibody against truncated IKK β recombinant protein (1).



Immunohistochemistry analysis of paraffin-embedded human colon carcinoma(A), breast carcinoma(B), kidney cell carcinoma(C), bladder carcinoma tumor(D), showing membrane and cytoplasmic localization with DAB staining using IKK β Monoclonal Antibody.