



IKK β (phospho Tyr188) Polyclonal Antibody

Catalog No	YP-Ab-14443
Isotype	IgG
Reactivity	Human;Mouse;Rat;Monkey
Applications	WB;IHC;IF;ELISA
Gene Name	IKBKB
Immunogen	The antiserum was produced against synthesized peptide derived from human IKK-beta around the phosphorylation site of Tyr188. AA range:161-210
Specificity	Phospho-IKK β (Y188) Polyclonal Antibody detects endogenous levels of IKK β protein only when phosphorylated at Y188.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. 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;NFKBIKB
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],

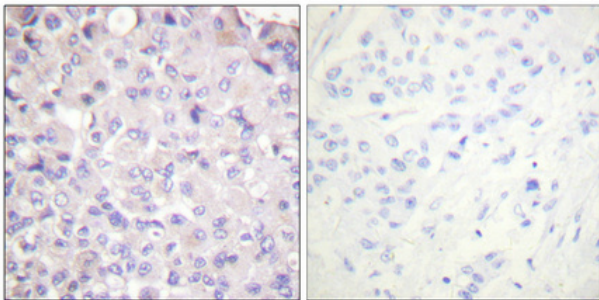
matters needing attention

Avoid repeated freezing and thawing!

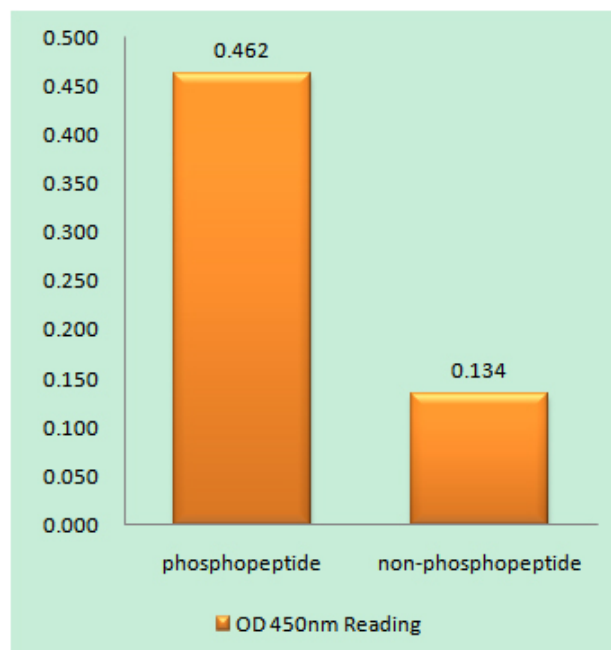
Usage suggestions

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

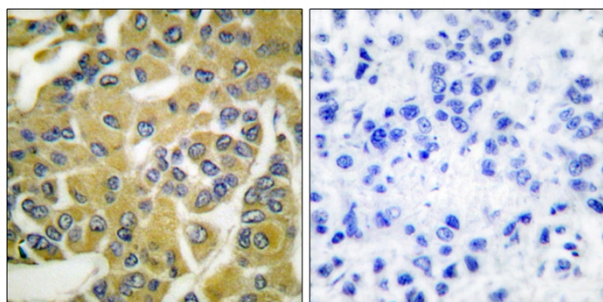
Products Images



Immunohistochemical analysis of paraffin-embedded Human breast cancer. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative ctrl (right) obtained from antibody was pre-absorbed by immunogen peptide.



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using IKK-beta (Phospho-Tyr188) Antibody



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using IKK-beta (Phospho-Tyr188) Antibody. The picture on the right is blocked with the phospho peptide.

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Western blot analysis of lysates from COS7 cells, using IKK-beta (Phospho-Tyr188) Antibody. The lane on the right is blocked with the phospho peptide.

