Best Tools for immunology Research

IKKβ Monoclonal Antibody

Catalog No :	YM0363
Reactivity :	Human
Applications :	WB;IHC;IF;ELISA
Target :	IKBKB
Fields :	>>Antifolate resistance;>>MAPK signaling pathway;>>Ras signaling pathway;>>Chemokine signaling pathway;>>NF-kappa B signaling pathway;>>FoxO signaling pathway;>>mTOR signaling pathway;>>PI3K-Akt signaling pathway;>>Apoptosis;>>Osteoclast differentiation;>>Toll-like receptor signaling pathway;>>NOD-like receptor signaling pathway;>>RIG-I-like receptor signaling pathway;>>Cytosolic DNA-sensing pathway;>>C-type lectin receptor signaling pathway;>>IL-17 signaling pathway;>>Th1 and Th2 cell differentiation;>>Th17 cell differentiation;>>T cell receptor signaling pathway;>>B cell receptor signaling pathway;>>TNF signaling pathway;>>Neurotrophin signaling pathway;>>Insulin signaling pathway;>>Adipocytokine signaling pathway;>>Type II diabetes mellitus;>>Insulin resistance;>>Non-alcoholic fatty liver disease;>>Alcoholic liver disease;>>Alzheimer disease;>>Epithelial cell signaling in Helicobacter pylori infection;>>Pathogenic Escherichia coli infection;>>Shigellosis;>>Salmonella infection;>>Yer
Gene Name :	IKBKB
Protein Name :	Inhibitor of nuclear factor kappa-B kinase subunit beta
Human Gene Id :	3551
Human Swiss Prot No :	O14920
Mouse Swiss Prot No :	O88351
Immunogen :	Purified recombinant fragment of IKKβ expressed in E. Coli.
Specificity :	IKKβ Monoclonal Antibody detects endogenous levels of IKKβ protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

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Source :	Monoclonal, Mouse
Dilution :	WB 1:500 - 1:2000. IHC 1:200 - 1:1000. ELISA: 1:10000.. IF 1:50-200
Purification :	Affinity purification
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	87kD
Cell Pathway :	MAPK_ERK_Growth;MAPK_G_Protein;Chemokine;Apoptosis_Inhibition;Apoptosis_Mitochondrial;Apoptosis_Overview;Toll_Like;NOD-like receptor;RIG-I-like receptor;Cytosolic DNA-sensing pathway;T_Cell_Receptor;B
P References :	1. Azoitei N,et al. Biochemistry. 2005.14;44(23): 8326-36. 2. Kumar KA,et al. Neurosci Lett. 2003.10;340(2): 139-42. 3. Peet GW,et al. J Biol Chem. 1999 Nov 12;274(46): 32655-61.
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],
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
Subcellular Location :	Cytoplasm . Nucleus . Membrane raft . Colocalized with DPP4 in membrane rafts. .
Expression :	Highly expressed in heart, placenta, skeletal muscle, kidney, pancreas, spleen, thymus, prostate, testis and peripheral blood.
Sort :	8401

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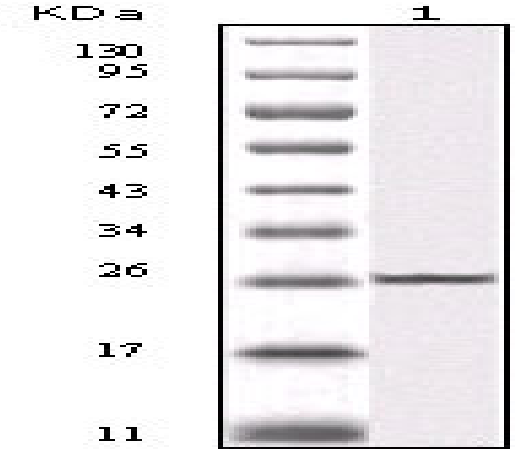
No4 : 1

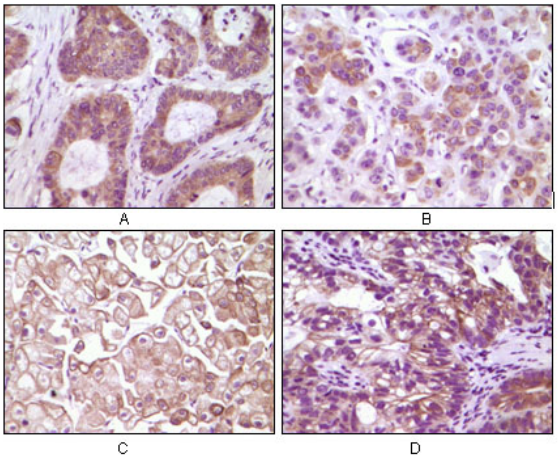
Host : Mouse

Modifications : Unmodified

Products Images



Western Blot analysis using IKKβ Monoclonal Antibody against truncated IKKβ 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 IKKβ Monoclonal Antibody.