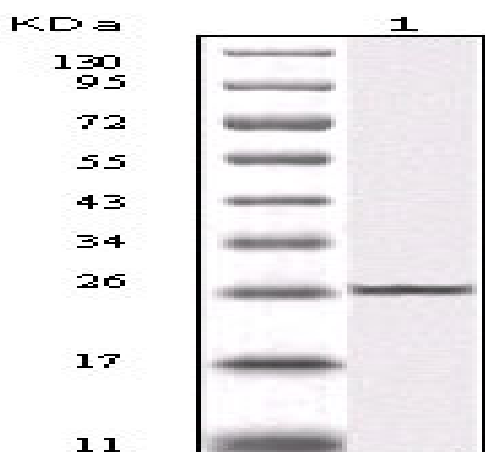


## IKK $\beta$ Monoclonal Antibody

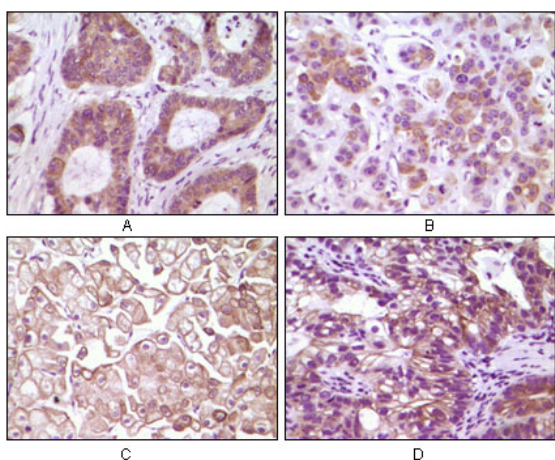
<b>Catalog No :</b>	YM0363
<b>Reactivity :</b>	Human
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	IKBKB
<b>Fields :</b>	>>Antifolate resistance;>>MAPK signaling pathway;>>Ras signaling pathway;>>Chemokine signaling pathway;>>NF-kappa B signaling pathway;>>FoxO signaling pathway;>>mTOR signaling 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
<b>Gene Name :</b>	IKBKB
<b>Protein Name :</b>	Inhibitor of nuclear factor kappa-B kinase subunit beta
<b>Human Gene Id :</b>	3551
<b>Human Swiss Prot No :</b>	O14920
<b>Mouse Swiss Prot No :</b>	O88351
<b>Immunogen :</b>	Purified recombinant fragment of IKK $\beta$ expressed in E. Coli.
<b>Specificity :</b>	IKK $\beta$ Monoclonal Antibody detects endogenous levels of IKK $\beta$ protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:200 - 1:1000. ELISA: 1:10000.. IF 1:50-200
<b>Purification :</b>	Affinity purification
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Molecularweight :</b>	87kD
<b>Cell Pathway :</b>	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
<b>P References :</b>	<ol style="list-style-type: none"><li>1. Azoitei N,et al. Biochemistry. 2005.14;44(23): 8326-36.</li><li>2. Kumar KA,et al. Neurosci Lett. 2003.10;340(2): 139-42.</li><li>3. Peet GW,et al. J Biol Chem. 1999 Nov 12;274(46): 32655-61.</li></ol>
<b>Background :</b>	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],
<b>Function :</b>	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
<b>Subcellular Location :</b>	Cytoplasm . Nucleus . Membrane raft . Colocalized with DPP4 in membrane rafts. .
<b>Expression :</b>	Highly expressed in heart, placenta, skeletal muscle, kidney, pancreas, spleen, thymus, prostate, testis and peripheral blood.

## Products Images



Western Blot analysis using IKK $\beta$  Monoclonal Antibody against truncated IKK $\beta$  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 $\beta$  Monoclonal Antibody.