

IKK β Mouse mAb

CatalogNo: YM0363

| Key Features

Host Species

- Mouse

Reactivity

- Human

Applications

- WB,IHC,IF,ELISA

MW

- 87kD (Calculated)

| Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:200-1:1000

ELISA 1:10000

IF 1:50-200

| Storage

Storage*

-15°C to -25°C/1 year(Do not lower than -25°C)

Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

| Basic Information

Clonality

Monoclonal

| Immunogen Information

Immunogen

Purified recombinant fragment of IKK β expressed in E. Coli.

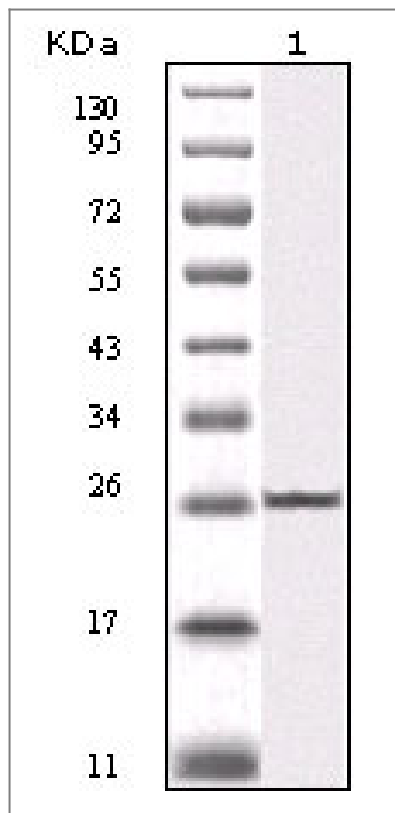
Specificity

IKK β Monoclonal Antibody detects endogenous levels of IKK β protein.

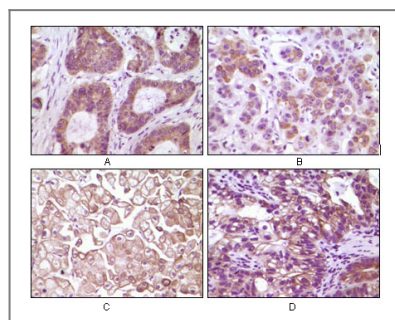
| Target Information

Gene name	IKBKB		
Protein Name	Inhibitor of nuclear factor kappa-B kinase subunit beta		
	Organism	Gene ID	UniProt ID
	Human	3551 ;	O14920 ;
	Mouse		O88351 ;
Cellular Localization	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	<p>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 protein kinase superfamily. Ser/Thr protein kinase family. I-kappa-B kinase subfamily.,similarity:Contains 1 protein kinase domain.,subunit:Component of the I-kappa-B-kinase (IKK) core complex consisting of CHUK, IKBKB and IKBKG; probably four alpha/CHUK-beta/IKBKB dimers are associated with four gamma/IKBKG subunits. The IKK core complex seems to associate with regulatory or adapter proteins to form a IKK-signalosome holo-complex. Part of a complex composed of NCOA2, NCOA3, CHUK/IKKA, IKBKB, IKBKG and CREBBP. Part of a 70-90 kDa complex at least consisting of CHUK/IKKA, IKBKB, NFKBIA, RELA, IKBKAP and MAP3K14. Interacts with SQSTM1 through PRKCZ or PRKCI. Forms an NGF-induced complex with IKBKB, PRKCI and TRAF6. May interact with MAVS/IPS1. Interacts with NALP2. Interacts with TICAM1. Interacts with Yersinia yopJ. Interacts with FAF1; the interaction disrupts the IKK complex formation. Interacts with ATM. Part of a ternary complex consisting of TANK, IKBKB and IKBKG. Interacts with NIBP; the interaction is direct.,tissue specificity:Highly expressed in heart, placenta, skeletal muscle, kidney, pancreas, spleen, thymus, prostate, testis and peripheral blood.,</p>		

| Validation Data



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.

Contact information

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Please scan the QR code to access additional product information:
IKK β Mouse mAb

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