IKKβ (Phospho Tyr199) Rabbit pAb

CatalogNo: YP0654 Orthogonal Validated

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,IHC,IF,ELISA

MW
- 85kD (Observed)

Isotype
- IgG

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.

Recommended Dilution Ratios

WB 1:500-1:2000
IHC 1:100-1:300
ELISA 1:5000
IF 1:50-200

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human IKK-beta around the phosphorylation site of Tyr199. AA range:166-215

Specificity Phospho-IKKβ (Y199) Polyclonal Antibody detects endogenous levels of IKKβ protein only when phosphorylated at Y199.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):QKyTV

Target Information

Gene name IKBKB

Protein Name Inhibitor of nuclear factor kappa-B kinase subunit beta

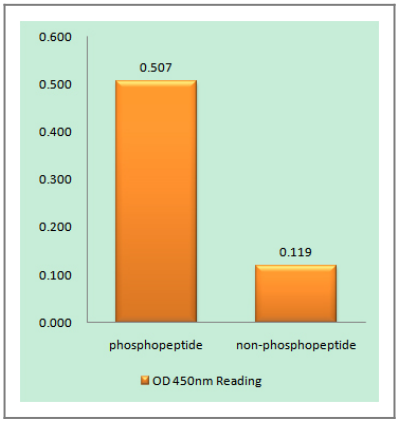
Organism	Gene ID	UniProt ID
Human	3551;	O14920;
Mouse	16150;	O88351;
Rat	84351;	Q9QY78;

Cellular Localization Cytoplasm . Nucleus . Membrane raft . Colocalized with DPP4 in membrane rafts. .

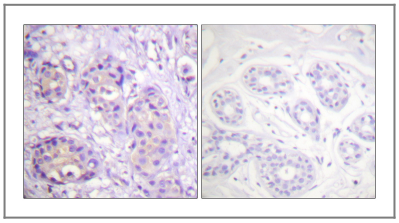
Tissue specificity Highly expressed in heart , placenta , skeletal muscle , kidney , pancreas , spleen , thymus , prostate , testis and peripheral blood.

Function 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. ,

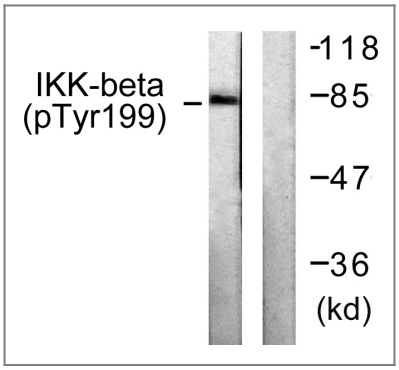
Validation Data



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using IKK-beta (Phospho-Tyr199) Antibody



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using IKK-beta (Phospho-Tyr199) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HeLa cells treated with TNF-a 20ng/ml+Calyculin A 50nM 5', using IKK-beta (Phospho-Tyr199) Antibody. The lane on the right is blocked with the phospho peptide.

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Please scan the QR code to access additional product information:
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