

## IKK $\beta$ Rabbit pAb

CatalogNo: YT2304 **Orthogonal Validated** 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, IHC, IF, ELISA

#### MW

- 86kD (Observed)

#### Isotype

- IgG

### Recommended Dilution Ratios

**WB 1:500-2000****IHC 1:100-1:300****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** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human IKK-beta. AA range:166-215**Specificity** IKK $\beta$  Polyclonal Antibody detects endogenous levels of IKK $\beta$  protein.

### Target Information

**Gene name** IKBKB

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

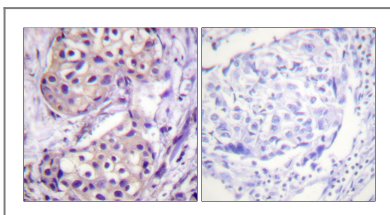
Organism	Gene ID	UniProt ID
Human	<a href="#">3551</a> ;	<a href="#">O14920</a> ;
Mouse	<a href="#">16150</a> ;	<a href="#">O88351</a> ;
Rat	<a href="#">84351</a> ;	<a href="#">Q9QY78</a> ;

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

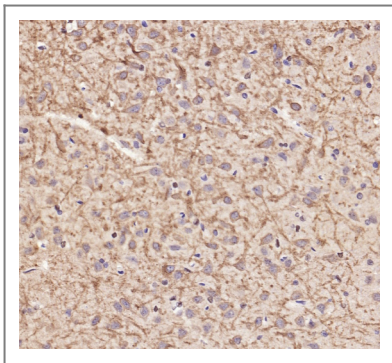
**Tissue specificity** Highly expressed in heart, placenta, skeletal muscle, kidney, pancreas, spleen, thymus, prostate, testis and peripheral blood.

**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



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using IKK-beta Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human brain. 1,primary Antibody was diluted at 1:200(4° overnight). 2, EDTA pH 9.0 was used for antigen retrieval 3 Reday to use Secondary antibody( catalog: RS0011) was used at 37°C, 30min

## | Contact information

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Please scan the QR code to access additional product information:  
**IKK $\beta$  Rabbit pAb**

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