

## IKK- $\alpha$ / $\beta$ Rabbit pAb

CatalogNo: YT2302

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat, Pig

#### 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 1:20000**

**IF 1:50-200**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human IKK-alpha/beta. AA range:141-190

**Specificity** IKK $\alpha$ / $\beta$  Polyclonal Antibody detects endogenous levels of IKK $\alpha$ / $\beta$  protein.

### Target Information

**Gene name** CHUK/IKBKB

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

Organism	Gene ID	UniProt ID
Human	<a href="#">1147</a> ; <a href="#">3551</a> ;	<a href="#">O15111</a> ; <a href="#">O14920</a> ;
Mouse	<a href="#">16150</a> ;	
Rat	<a href="#">84351</a> ;	<a href="#">Q9QY78</a> ;

**Cellular Localization** Cytoplasm . Nucleus . Shuttles between the cytoplasm and the nucleus.

**Tissue specificity** Widely expressed.

**Function** Catalytic activity:ATP + [I-kappa-B protein] = ADP + [I-kappa-B phosphoprotein].,enzyme regulation:Activated when phosphorylated and inactivated when dephosphorylated.,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. As part of the non-canonical pathway of NF-kappa-B activation, the MAP3K14-activated CHUK/IKKA homodimer phosphorylates NFKB2/p100 associated with RelB, inducing its proteolytic processing to NFKB2/p52 and the formation of NF-kappa-B RelB-p52 complexes. Also phosphorylates NCOA3. Phosphorylates 'Ser-10' of histone H3 at NF-kappa-B-regulated promoters during inflammatory responses triggered by cytokines.,PTM:Phosphorylated by MAP3K14/NIK, AKT and to a lesser extent by MEKK1, and dephosphorylated by PP2A. Autophosphorylated.,similarity:Belongs to the protein kinase superfamily.,similarity:Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. I-kappa-B kinase subfamily.,similarity:Contains 1 protein kinase domain.,subcellular location:Shuttles between the cytoplasm and the nucleus.,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. Directly interacts with IKK-gamma/NEMO and TRPC4AP (By similarity). May interact with TRAF2. Interacts with NALP2. May interact with MAVS/IPS1.,tissue specificity:Widely expressed.,

## Validation Data

## Contact information

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

