# IKK-α/β 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

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|---|---|
| **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

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|---|---|
| **Immunogen** | The antiserum was produced against synthesized peptide derived from human IKK-alpha/beta. AA range:141-190 |
| **Specificity** | IKKα/β Polyclonal Antibody detects endogenous levels of IKKα/β protein. |

## Target Information

**Gene name** CHUK/IKBKB

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

| Organism | Gene ID | UniProt ID |
|---|---|---|
| Human | 1147; 3551; | O15111; O14920; |
| Mouse | 16150; | |
| Rat | 84351; | Q9QY78; |

**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-α/β Rabbit pAb**