# IKK-α/β (PT0435R) PT™ Rabbit mAb

CatalogNo: YM8275 Recombinant

## Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat,Pig

Applications
- WB,IHC,IF,IP,ELISA

MW
- 86kD (Calculated)

86kD (Observed)

Isotype
- IgG, Kappa

## Storage

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|---|---|
| **Storage*** | -15°C to -25°C/1 year (Do not lower than -25°C) |
| **Formulation** | PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA |

## Recommended Dilution Ratios

**IHC 1:500-1:2000**
**WB 1:1000-1:5000**
**IF 1:200-1:1000**
**ELISA 1:5000-1:20000**
**IP 1:50-1:200**

## Basic Information

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|---|---|
| **Clonality** | Monoclonal |
| **Clone Number** | PT0435R |

## Immunogen Information

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|---|---|
| **Immunogen** | The specific immunogen used to produce this antibody is proprietary information. |
| **Specificity** | Endogenous |

## Target Information

**Gene name** CHUK/IKBKB

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

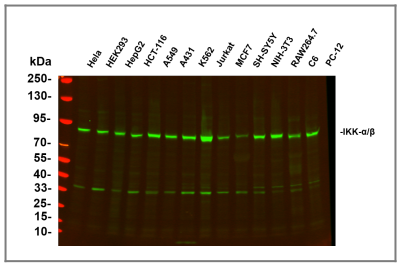
| Organism | Gene ID | UniProt ID |
|---|---|---|
| Human | 1147; 3551; | O15111; O14920; |
| Mouse | 16150; | |
| Rat | 84351; | Q9QY78; |

**Cellular Localization** Cytoplasm , Nucleus

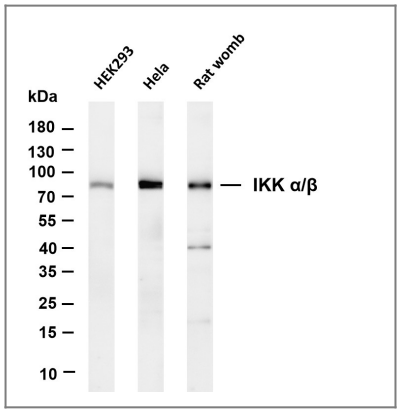
**Tissue specificity** Widely expressed.

**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. ,

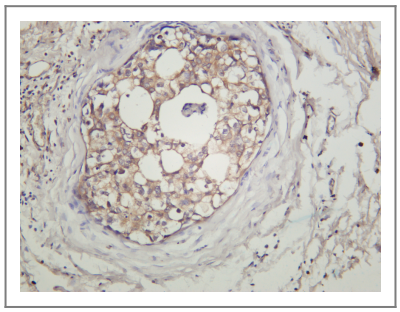
## Validation Data



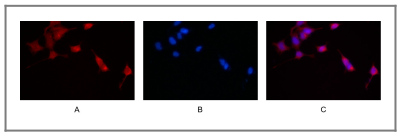

Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4°C over night with a 1:2500 dilution . The Dilight 800-conjugated Goat anti-Rabbit antibody (Cat:RS23920) was used to detect the antibody. Lane1: Hela - Human cervical cancer Lane2: HEK293 - Human normal embryonic kidney Lane3: HepG2 - Human hepatocellular carcinoma Lane4: HCT-116 - Human colon cancer Lane5: A549 - Human lung adenocarcinoma Lane6: A431 - Human skin squamous cell carcinoma Lane7: K562 - Human chronic myeloid leukemia Lane8: Jurkat - Human acute T cell leukemia cells Lane9: MCF7 - Human breast cancer Lane10: SH-SY5Y - Human neuroblastoma cells Lane11: NIH-3T3 - NIH mouse fibroblasts Lane12: RAW264.7 - Mouse mononuclear macrophage leukemia cells Lane13: C6 - Rat glioma cells Lane14: PC-12 - Pheochromocytoma in rats Predicted band size: 86kDa Observed band size: 86kDa




Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-IKK α/β antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: HEK293 Lane 2: Hela Lane 3: Rat womb Predicted band size: 86kDa Observed band size: 86kDa



Human breast carcinoma was stained with anti-IKK α/β rabbit antibody




Immunofluorescence analysis of HEK293. Picture A: IKK α/β antibody (red). Picture B: DAPI (blue). Picture C: Merge of A+B

## Contact information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| Orders: | order@immunoway.com |
| Support: | tech@immunoway.com |
| Telephone: | 877-594-3616 (Toll Free), 408-747-0185 |
| Website: | http://www.immunoway.com |
| Address: | 2200 Ringwood Ave San Jose, CA 95131 USA |


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