



Mouse Monoclonal Antibody **IKK α/β** conjugated to Sepharose Beads

CatalogNo: **ANT8275-M**

Size 200ul

Storage Store at 4 °C for frequent use

Description

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified beads. It is useful for immunoprecipitation.

IKK α/β (ANT0035R) Rabbit mAb

Formulation: Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg ANaN3.

Host Species

- Rabbit
- Human, Mouse, Rat,

Reactivity

- WB, IHC, IF, IP, ELISA

Applications

MW

- 86kD (Calculated)
 - IgG, Kappa
- 86kD (Observed)

Isotype

Recommended Dilution Ratios

IP

Basic Information

Clonality

Monoclonal

Clone Number ANT0035R

Immunogen Information

Specificity Endogenous

Gene name CHUK/IKBKB

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

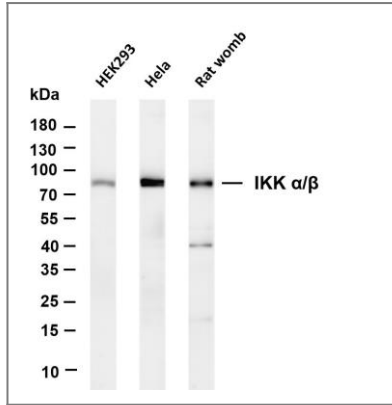
Organism	Gene ID	UniProt ID
Human	1147 ; 3551 ;	O15111 ; O14920 ;
Mouse	16150 ;	
Rat	84351 ;	Q9QY78 ;

Cellular Localization Cytoplasm, Nucleus

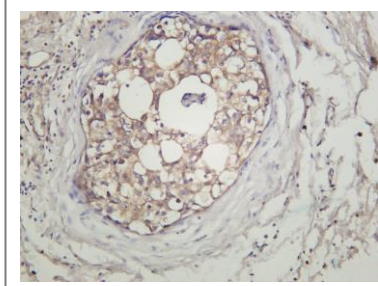
Tissue specificity Widely expressed.

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 MAP3K14activated 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-kappaB-regulated promoters during inflammatory responses triggered by cytokines..ANTM: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 Ikappa-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 IKKsignalosome 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 membrane was blotted with anti-IKK α/β (ANT0035R) antibody. The HRPconjugated 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 (ANT0035R) rabbit antibody

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