

IKK- α/β (Phospho Ser176/180) (PT0746R) PT™ Rabbit mAb

CatalogNo: YM8579 **Recombinant** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 85kD, 87kD (Calculated)
80kD (Observed)

Isotype

- IgG, Kappa

Storage

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 1:200-1:1000

WB 1:1000-1:5000

IF 1:200-1:1000

ELISA 1:5000-1:20000

Basic Information

Clonality Monoclonal

Clone Number PT0746R

Immunogen Information

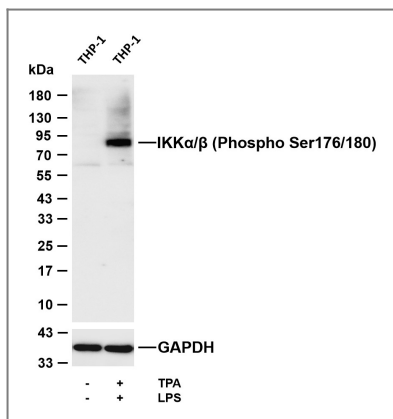
Immunogen The specific immunogen used to produce this antibody is proprietary information.

Specificity IKK- α/β (Phospho Ser176/180) antibody detects endogenous levels of IKK α/β only when phosphorylated at S176/S180. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):QGSLC/CTsFV

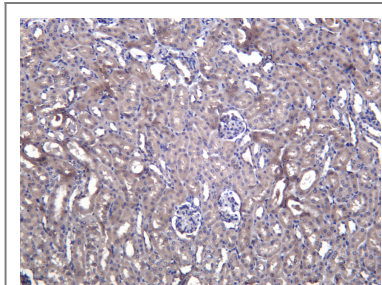
Target Information

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. ,		

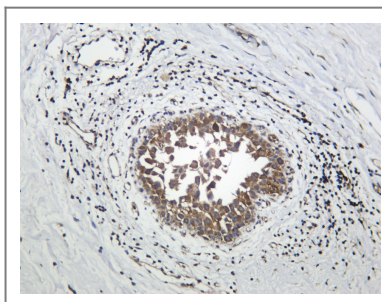
Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-IKK α/β (Phospho Ser176/180) (PT0746R) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: THP-1 Lane 2: THP-1 was treated with TPA (80 nM) overnight and LPS (1 μ g/ml) for 1 hour Predicted band size: 85,87kDa Observed band size: 90kDa



Mouse kidney was stained with anti-IKK α/β (Phospho Ser176/180) (PT0746R) Rabbit antibody



Human breast cancer was stained with anti-IKK α/β (Phospho Ser176/180) (PT0746R) Rabbit antibody

Contact information

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



Please scan the QR code to access additional product information:
IKK- α/β (Phospho Ser176/180) (PT0746R) PT™ Rabbit mAb