

For Research Use Only

# IKKB Recombinant monoclonal antibody

Catalog Number: 81370-2-RR



## Basic Information

<b>Catalog Number:</b> 81370-2-RR	<b>GenBank Accession Number:</b> BC006231	<b>Purification Method:</b> Protein A purification
<b>Source:</b> Rabbit	<b>GeneID (NCBI):</b> 3551	<b>CloneNo.:</b> 250538G7
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> O14920	<b>Recommended Dilutions:</b> WB: 1:1000-1:4000
<b>Immunogen Catalog Number:</b> AG8191	<b>Full Name:</b> inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta	
	<b>Calculated MW:</b> 756aa,81 kDa; 256aa,29 kDa	
	<b>Observed MW:</b> 80-85 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : THP-1 cells, Jurkat cells, PC-12 cells, NIH/3T3 cells
<b>Species Specificity:</b> human, mouse, rat	

## Background Information

IKKB, also named as IKK $\beta$ , IKK2, NFKB1B and IKK-B, belongs to the protein kinase superfamily, Ser/Thr protein kinase family and I-kappa-B kinase subfamily. IKKB is a Serine kinase that plays an essential role in the NF-kappa-B signaling pathway. It acts as part of the canonical IKK complex in the conventional pathway of NF-kappa-B activation and phosphorylates inhibitors of NF-kappa-B on 2 critical serine residues. In addition to the NF-kappa-B inhibitors, IKKB phosphorylates several other components of the signaling pathway including NEMO/IKBK $\gamma$ , NF-kappa-B subunits RELA and NFKB1, as well as IKK-related kinases TBK1 and IKBKE. It also phosphorylates other substrates including NCOA3, BCL10 and IRS1. Within the nucleus, IKKB acts as an adapter protein for NFKBIA degradation in UV-induced NF-kappa-B activation.

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

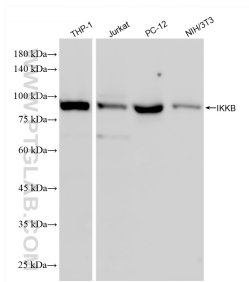
T: 4006900926

E: Proteintech-CN@ptglab.com

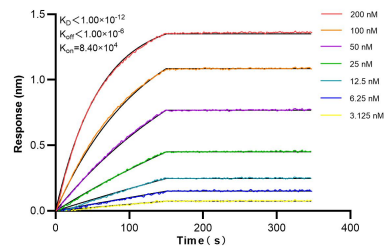
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 81370-2-RR (IKKβ antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 81370-2-RR against Human IKKβ were performed. The affinity constant is below 1 pM.