

For Research Use Only

IKKB Recombinant monoclonal antibody

Catalog Number: 81370-2-RR



Basic Information

Catalog Number: 81370-2-RR	GenBank Accession Number: BC006231	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 3551	CloneNo.: 250538G7
Source: Rabbit	UNIPROT ID: O14920	Recommended Dilutions: WB: 1:1000-1:4000
Isotype: IgG	Full Name: inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta	
Immunogen Catalog Number: AG8191	Calculated MW: 756aa,81 kDa; 256aa,29 kDa	
	Observed MW: 80-85 kDa	

Applications

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

Background Information

IKKB, also named as IKKB, 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/IKBKG, 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

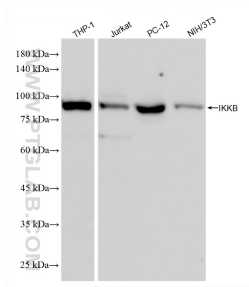
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

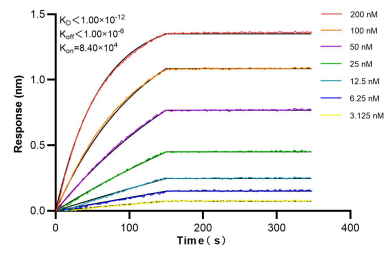
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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Selected Validation Data



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.