

For Research Use Only

IRAK1 Recombinant antibody

Catalog Number: 86068-3-RR



Basic Information

Catalog Number: 86068-3-RR	GenBank Accession Number: BC014963	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 3654	CloneNo.: 250691C5
Source: Rabbit	UNIPROT ID: P51617	Recommended Dilutions: WB: 1:2000-1:10000
Isotype: IgG	Full Name: interleukin-1 receptor-associated kinase 1	
Immunogen Catalog Number: AG0728	Calculated MW: 77 kDa	
	Observed MW: 68-80 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls:
Species Specificity: human, rat	WB : HeLa cells, PC-12 cells, HEK-293 cells, A549 cells, MCF-7 cells, Jurkat cells

Background Information

Interleukin-1 receptor-associated kinases (IRAKs) are a unique family of death domain containing protein kinases that play a key role in initiating innate immune response against foreign pathogens. They are involved in Toll-like receptor (TLR) and interleukin-1 receptor (IL-1R) signaling pathways. IRAK1 is the first member of this kinase family. Upon ligand binding to TLR/IL-1R, IRAK1 is recruited by MYD88 to the receptor-signaling complex, the association leads to IRAK1 phosphorylation by IRAK4 and subsequent autophosphorylation and kinase activation. Hyper-phosphorylated IRAK1 then disengages from the receptor complex, and forms a cytosolic IRAK1-TRAF6 complex. TRAF6 then interacts with TAK and TAB, resulting in eventual activation of the NF- κ B and MAPK pathways. Phosphorylated IRAK1 also undergoes ubiquitin-mediated degradation or sumoylation, which results in nuclear translocation and transcriptional activation of inflammatory target genes. (PMID: 17890055; 12620219)

Storage

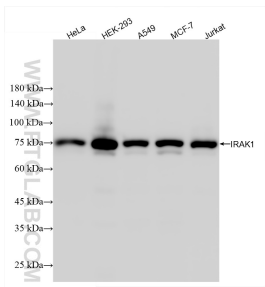
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

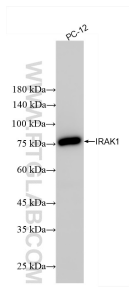
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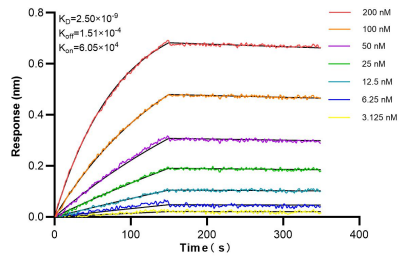
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86068-3-RR (IRAK1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



PC-12 cells were subjected to SDS PAGE followed by western blot with 86068-3-RR (IRAK1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 86068-3-RR against Human IRAK1 were performed. The affinity constant is 2.50 nM.