

For Research Use Only

JAB1 Recombinant monoclonal antibody

Catalog Number: 87012-1-RR



Basic Information

Catalog Number: 87012-1-RR	GenBank Accession Number: BC001187	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 10987	CloneNo.: 252139B3
Source: Rabbit	UNIPROT ID: Q92905	Recommended Dilutions: WB: 1:1000-1:6000
Isotype: IgG	Full Name: COP9 constitutive photomorphogenic homolog subunit 5 (Arabidopsis)	
Immunogen Catalog Number: AG25950	Calculated MW: 37 kDa	
	Observed MW: 35-38 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : HeLa cells, U-87 MG cells, MCF-7 cells, HCT 116 cells, HEK-293 cells, NIH/3T3 cells, PC-12 cells
Species Specificity: human, mouse	

Background Information

Probable protease subunit of the COP9 signalosome complex (CSN), a complex involved in various cellular and developmental processes. The CSN complex is an essential regulator of the ubiquitin (Ubl) conjugation pathway by mediating the deneddylation of the cullin subunits of the SCF-type E3 ligase complexes, leading to decrease the Ubl ligase activity of SCF-type complexes such as SCF, CSA or DDB2. The complex is also involved in phosphorylation of p53/TP53, c-jun/JUN, IκappaBα/NFKBIA, ITPK1 and IRF8, possibly via its association with CK2 and PKD kinases. CSN-dependent phosphorylation of TP53 and JUN promotes and protects degradation by the Ubl system, respectively. In the complex, it probably acts as the catalytic center that mediates the cleavage of Nedd8 from cullins. It however has no metalloprotease activity by itself and requires the other subunits of the CSN complex. Interacts directly with a large number of proteins that are regulated by the CSN complex, confirming a key role in the complex. Promotes the proteasomal degradation of BRSK2.

Storage

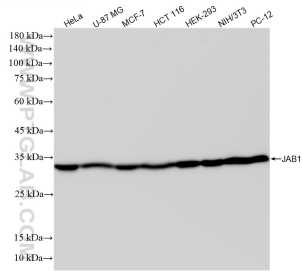
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

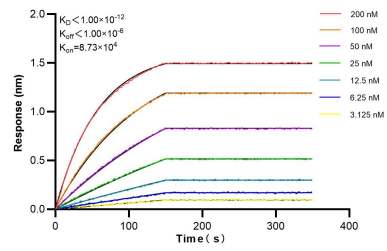
For technical support and original validation data for this product please contact:
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87012-1-RR (JAB1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 87012-1-RR against Human JAB1 were performed. The affinity constant is below 1 pM.