

For Research Use Only

RNF4 Polyclonal antibody

Catalog Number: 17810-1-AP

Featured Product

6 Publications



Basic Information

Catalog Number: 17810-1-AP	GenBank Accession Number: BC031935	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 700 µg/ml by Nanodrop and 367 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 6047	Recommended Dilutions: WB 1:500-1:1000 IP 0.5-4.0 ug for IP and 1:200-1:1000 for WB
Source: Rabbit	Full Name: ring finger protein 4	
Isotype: IgG	Calculated MW: 190 aa, 21 kDa	
Immunogen Catalog Number: AG12115	Observed MW: 30 kDa	

Applications

Tested Applications: IP, WB, ELISA	Positive Controls:
Cited Applications: CoIP, WB	WB : PC-3 cells,
Species Specificity: human, mouse, rat	IP : PC-3 cells,
Cited Species: human, mouse	

Background Information

RNF4 is a E3 ubiquitin-protein ligase that binds polysumoylated chains covalently attached to proteins and mediates 'Lys-6', 'Lys-11', 'Lys-48' and 'Lys-63'-linked polyubiquitination of those substrates and their subsequent targeting to the proteasome for degradation. It regulates the degradation of several proteins including PML and PEA3 [PMID:18408734]. It also participates in chromosome alignment and spindle assembly, and regulates the kinetochore CENPH-CENPI-CENPK complex by targeting polysumoylated CENPI to proteasomal degradation. In addition, RNF4 can regulate the cellular responses to hypoxia and heat shock through degradation of respectively EPAS1 and PARP1 [PMID:20026589]. Alternatively, it may also bind DNA/nucleosomes and have a more direct role in the regulation of transcription for instance enhancing basal transcription and steroid receptor-mediated transcriptional activation [PMID:11319220]. RNF4 exist as two isoforms. Isoform one is a 30 kDa protein and isoform two is a about 15 kDa protein. RNF4 binds polysumoylated chains and the molecular weight of RNF4 migrate in the experiment to 35 kDa, 47 kDa, 69 kDa as ubiquitinated protein.

Notable Publications

Author	Pubmed ID	Journal	Application
Tao Zhang	36050397	Nat Commun	WB
Tatsuya Shimada	34071450	Int J Mol Sci	WB
Carl C Ward	31059647	ACS Chem Biol	WB

Storage

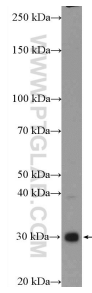
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

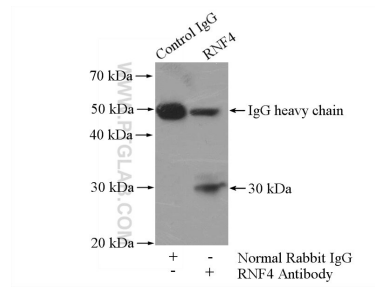
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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Selected Validation Data



PC-3 cells were subjected to SDS PAGE followed by western blot with 17810-1-AP (RNF4 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



IP Result of anti-RNF4 (IP:17810-1-AP, 4ug; Detection:17810-1-AP 1:300) with PC-3 cells lysate 3200ug.