

For Research Use Only

RNF4 Polyclonal antibody, PBS Only

Catalog Number:17810-1-PBS

Featured Product



Basic Information

Catalog Number:

17810-1-PBS

Size:

100ug , Concentration: 1 mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG12115

GenBank Accession Number:

BC031935

GeneID (NCBI):

6047

UNIPROT ID:

P78317

Full Name:

ring finger protein 4

Calculated MW:

190 aa, 21 kDa

Observed MW:

30 kDa

Purification Method:

Antigen affinity purification

Applications

Tested Applications:

WB, IHC, IP, Indirect ELISA

Species Specificity:

human, mouse, rat

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.

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS only, pH7.3

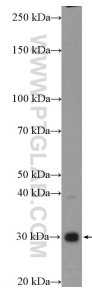
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

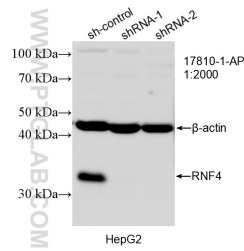
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

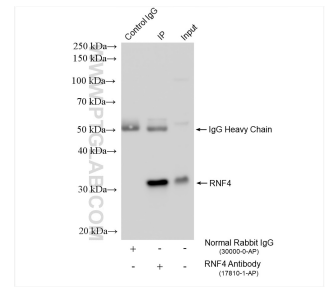
Selected Validation Data



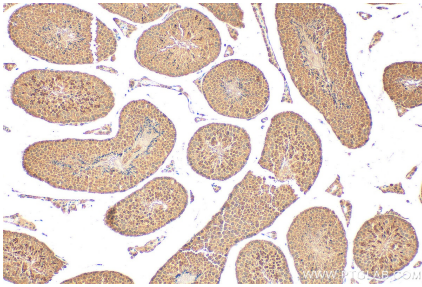
PC-3 cells were subjected to SDS PAGE followed by western blot with 17810-1-AP (RNF4 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 17810-1-PBS in a different storage buffer formulation.



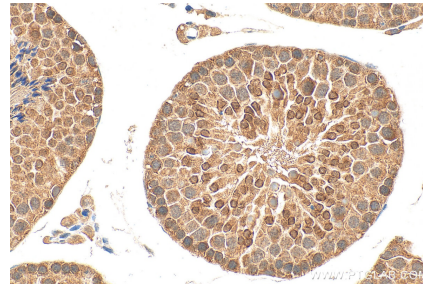
WB result of RNF4 antibody (17810-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-RNF4 transfected HepG2 cells. This data was developed using the same antibody clone with 17810-1-PBS in a different storage buffer formulation.



IP result of anti-RNF4 (IP:17810-1-AP, 4ug; Detection:17810-1-AP 1:1500) with PC-3 cells lysate 1800 ug. This data was developed using the same antibody clone with 17810-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 17810-1-AP (RNF4 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 17810-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 17810-1-AP (RNF4 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 17810-1-PBS in a different storage buffer formulation.