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RNF4 Antibody (C-term)

Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16278b

Specification

RNF4 Antibody (C-term) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	P78317
Other Accession	NP_001171939.1, NP_001171938.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit Ig**
Antigen Region	**95-123**

RNF4 Antibody (C-term) - Additional Information

Gene ID 6047

Other Names
E3 ubiquitin-protein ligase RNF4, 632-, RING finger protein 4, Small nuclear ring finger protein, Protein SNURF, RNF4, SNURF

Target/Specificity
This RNF4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 95-123 amino acids from the C-terminal region of human RNF4.

Dilution
WB~~1:1000
IHC-P~~1:250
FC~~1:25

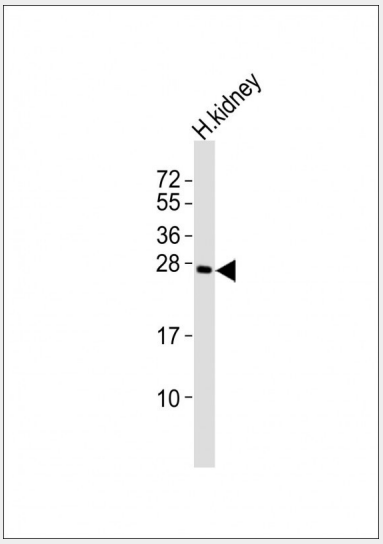
Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

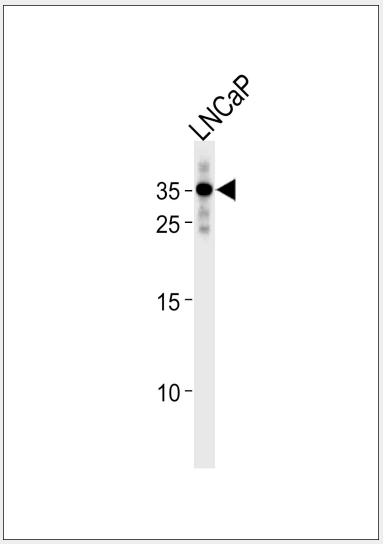
Precautions
RNF4 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

RNF4 Antibody (C-term) - Protein Information

Name RNF4



Anti-RNF4 Antibody (C-term)at 1:2000 dilution + human kidney lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 21 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



RNF4 Antibody (C-term) (Cat. #AP16278b) western blot analysis in LNCaP cell line lysates (35ug/lane).This demonstrates the RNF4 antibody detected the RNF4 protein (arrow).

Synonyms SNURF

Function
E3 ubiquitin-protein ligase which 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. Regulates the degradation of several proteins including PML and the transcriptional activator PEA3. Involved in chromosome alignment and spindle assembly, it regulates the kinetochore CENPH-CENPI-CENPK complex by targeting polysumoylated CENPI to proteasomal degradation. Regulates the cellular responses to hypoxia and heat shock through degradation of respectively EPAS1 and PARP1. 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.

Cellular Location
Cytoplasm. Nucleus. Nucleus, PML body. Nucleus, nucleoplasm

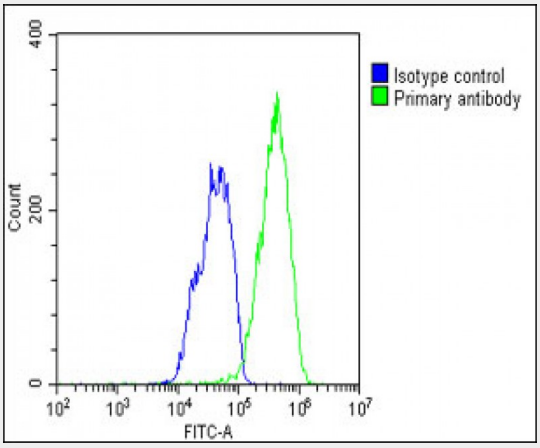
Tissue Location
Widely expressed at low levels in many tissues; highly expressed in testis.

RNF4 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

AP16278b staining RNF4 in human heart tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Samples were incubated with primary antibody (1/250) for 1 hours at room temperature. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



Overlay histogram showing HepG2 cells stained with AP16278b(green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP16278b, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(1583138) at 1/200 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

RNF4 Antibody (C-term) - Background

The protein encoded by this gene contains a RING finger
motif and acts as a transcription regulator. This protein has been
shown to interact with, and inhibit the activity of,

TRPS1, a
transcription suppressor of GATA-mediated
transcription.
Transcription repressor ZNF278/PATZ is found to
interact with this
protein, and thus reduce the enhancement of
androgen
receptor-dependent transcription mediated by
this protein. Studies
of the mouse and rat counterparts suggested a
role of this protein
in spermatogenesis. A pseudogene of this gene is
found on
chromosome 1.

RNF4 Antibody (C-term) - References

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RNF4 Antibody (C-term) - Citations

- TRIB3 Promotes APL Progression through Stabilization of the Oncoprotein PML-RARα and Inhibition of p53-Mediated Senescence.
- SENP3 regulates the global protein turnover and the Sp1 level via antagonizing SUMO2/3-targeted ubiquitination and degradation.