

RNF41 Rabbit pAb

Catalog # AP97543

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q9H4P4
Other Accession	Q9H4P4
Predicted	Rat, Human, Mouse, Chicken, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35905
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human RNF41
Epitope Specificity	101-200/317
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 RING-type zinc finger. Contains 1 SIAH-type zinc finger.
SUBUNIT	Interacts with USP8, ERBB3, PARK2 and BIRC6. Interacts with CSF2RB, EPOR, IL3RA, MYD88 and TBK1 (By similarity).
Post-translational modifications	Autoubiquitinated. Autoubiquitination leads to proteasomal degradation. Deubiquitinated by USP8 to get stabilized which induces apoptosis.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	RNF41 contains one RING-type zinc finger, a motif present in a variety of functionally distinct proteins and known to be involved in protein-protein and protein-DNA interactions. It acts as E3 ubiquitin-protein ligase and regulates the degradation of target proteins, such as ERBB3. RNF41 has been detected in ovary, testis and prostate.

Additional Information

Gene ID	10193
Other Names	RNF41_HUMAN; RNF41; RING finger protein 41; RING-type E3 ubiquitin transferase NRDP1; 2.3.2.27; FLRF; NRDP1; RNF41_MOUSE; ring finger protein 41, E3 ubiquitin protein ligase
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	RNF41
Synonyms	FLRF, NRDP1
Function	Acts as E3 ubiquitin-protein ligase and regulates the degradation of target proteins. Polyubiquitinates MYD88. Negatively regulates MYD88-dependent production of pro-inflammatory cytokines. Can promote TRIF-dependent production of type I interferon and inhibits infection with vesicular stomatitis virus (By similarity). Promotes also activation of TBK1 and IRF3. Involved in the ubiquitination of erythropoietin (EPO) and interleukin-3 (IL-3) receptors. Thus, through maintaining basal levels of cytokine receptors, RNF41 is involved in the control of hematopoietic progenitor cell differentiation into myeloerythroid lineages (By similarity). Contributes to the maintenance of steady-state ERBB3 levels by mediating its growth factor-independent degradation. Involved in the degradation of the inhibitor of apoptosis BIRC6 and thus is an important regulator of cell death by promoting apoptosis. Also acts as a PRKN modifier that accelerates its degradation, resulting in a reduction of PRKN activity, influencing the balance of intracellular redox state. The RNF41-PRKN pathway regulates autophagosome-lysosome fusion during late mitophagy. Mitophagy is a selective form of autophagy necessary for mitochondrial quality control (PubMed:24949970).
Tissue Location	Detected in ovary, testis and prostate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.