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RNF186 Rabbit pAb

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Catalog # AP59202

Product Information

Application	WB
Primary Accession	Q9NXI6
Reactivity	Mouse
Predicted	Rat, Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	24145
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human RNF186
Epitope Specificity	31-130/227
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane; Multi pass membrane protein.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The RING finger motif is a specialized DNA-binding zinc finger domain found in many transcriptional regulatory proteins. The ring finger protein (RNF) family includes any protein containing the signature RING finger motif. RNF186 (RING finger protein 186) is a 227 amino acid multi-pass membrane protein containing one RING-type zinc finger. The gene encoding RNF186 maps to human chromosome 1p36.13. Chromosome 1 is the largest human chromosome spanning about 260 million base pairs and making up 8% of the human genome. There are about 3,000 genes on chromosome 1, and considering the great number of genes there are also a large number of diseases associated with chromosome 1. Notably, the rare aging disease Hutchinson-Gilford progeria is associated with the LMNA gene which encodes lamin A. The MUTYH gene is located on chromosome 1 and is partially responsible for familial adenomatous polyposis. Stickler syndrome, Parkinsons, Gaucher disease and Usher syndrome are also associated with chromosome 1.

Additional Information

Gene ID	54546
Other Names	E3 ubiquitin-protein ligase RNF186, 2.3.2.27, RING finger protein 186 {ECO:0000312|HGNC:HGNC:25978}, RNF186 (HGNC:25978)
Dilution	WB=1:500-2000

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.

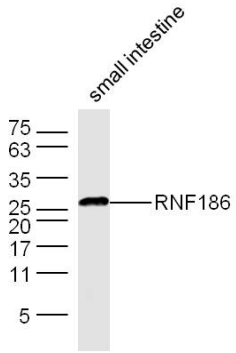
Protein Information

Name	RNF186 (HGNC:25978)
Function	E3 ubiquitin protein ligase that is part of an apoptotic signaling pathway activated by endoplasmic reticulum stress (PubMed:23896122). Stimulates the expression of proteins specific of the unfolded protein response (UPR), ubiquitinates BNIP1 and regulates its localization to the mitochondrion and induces calcium release from the endoplasmic reticulum that ultimately leads to cell apoptosis (PubMed:23896122). Plays a role in the maintenance of intestinal homeostasis and clearance of enteric pathogens. Upon NOD2 stimulation, ubiquitinates the ER stress sensor activating transcription factor 6/ATF6 and promotes the unfolded protein response UPR (PubMed:34623328). Participates in basal level of autophagy maintenance by regulating the ubiquitination of EPHB2 and EPHB3. Upon stimulation by ligand EFNB1, ubiquitinates EPHB2 and further recruits MAP1LC3B for autophagy induction (PubMed:33280498). Controls nutrient sensing by ubiquitinating Sestrin-2/SESN2, which is an intracellular sensor of cytosolic leucine and inhibitor of mTORC1 activity (PubMed:31586034).
Cellular Location	Endoplasmic reticulum membrane; Multi-pass membrane protein

Background

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Images



Sample: Small intestine (Mouse) Lysate at 40 ug
Primary: Anti-RNF186 (AP59202) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 24 kD
Observed band size: 26 kD

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