10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

RNF13 Rabbit pAb

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Catalog # AP59164

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O43567
Reactivity	Rat, Mouse
Predicted	Human, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	42814
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human RNF13
Epitope Specificity	201-300/381
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	Endoplasmic reticulum membrane. Golgi apparatus membrane. Late endosome membrane. Lysosome membrane. Nucleus inner membrane. Under certain conditions, relocalizes to recycling endosomes and to the inner nuclear membrane.
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-type zinc finger motif is present in a number of viral and eukaryotic proteins and is made of a conserved cysteine-rich domain that is able to bind two zinc atoms. Proteins that contain this conserved domain are generally involved in the ubiquitination pathway of protein degradation. RNF13 (ring finger protein 13), also known as RZF, FLJ93817 or MGC13689, is a novel 381 amino acid E3 ubiquitin ligase that localizes to the nucleus. RNF13 contains one RING-type zinc finger and the C-terminal portion of RNF13 has the ability to mediate ubiquitination. Recent studies suggest that RNF13 may be involved in the development of pancreatic cancer via ubiquitin-mediated modification of proteins. The gene encoding RNF13 maps to human chromsome 3q25.1, and a pseudogene (which is also located on chromosome 3), exists for this gene.

Additional Information

Gene ID	11342
Other Names	E3 ubiquitin-protein ligase RNF13, 2.3.2.27, RING finger protein 13, RNF13 {ECO:0000303|PubMed:18794910, ECO:0000312|HGNC:HGNC:10057}
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

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	RNF13 {ECO:0000303|PubMed:18794910, ECO:0000312|HGNC:HGNC:10057}
Function	E3 ubiquitin-protein ligase that regulates cell proliferation (PubMed:18794910, PubMed:23378536, PubMed:30595371). Involved in apoptosis regulation (PubMed:23378536, PubMed:30595371). Mediates ER stress-induced activation of JNK signaling pathway and apoptosis by promoting ERN1 activation and splicing of XBP1 mRNA (PubMed:23378536, PubMed:30595371). Also involved in protein trafficking and localization (PubMed:24387786).
Cellular Location	Endoplasmic reticulum membrane; Single-pass type I membrane protein. Late endosome membrane; Single-pass type I membrane protein. Lysosome membrane; Single-pass type I membrane protein. Nucleus inner membrane {ECO:0000250|UniProtKB:O54965}; Single-pass type I membrane protein. Note=Under certain conditions, relocalizes to recycling endosomes and to the inner nuclear membrane. {ECO:0000250|UniProtKB:O54965}
Tissue Location	Widely expressed (at protein level). In normal pancreas, expressed in islets, but not in ducts, nor in acini (at protein level).

Background

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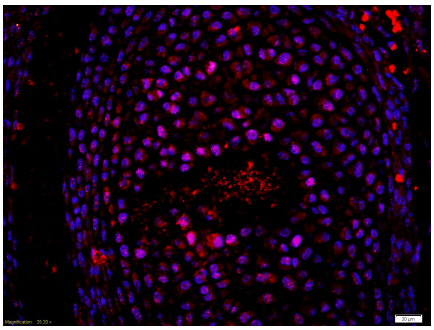
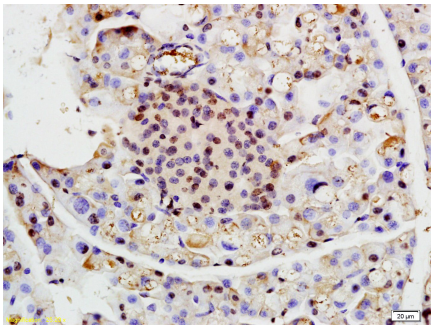
Images



issue/cell: bone of mouse embryo;4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Blocking buffer (normal goat serum,C-0005) at 37∩ for 20 min; Incubation: Anti-RNF13 Polyclonal Antibody, Unconjugated(AP59164) 1:200, overnight at 4∑C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(AP59164-Cy3)used at 1:200 dilution for 40 minutes at 37∑C. DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei

Tissue/cell: rat pancreas tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37∩ for 20 min; Incubation: Anti-RNF13 Polyclonal Antibody, Unconjugated(AP59164) 1:200, overnight at 4∑C,



followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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