

Anti-RNF186 Picoband Antibody
Catalog # ABO13078**Specification**

Anti-RNF186 Picoband Antibody - Product Information

Application	WB
Primary Accession	Q9NXI6
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for RNF186 detection. Tested with WB, Direct ELISA in Human.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-RNF186 Picoband Antibody - Additional Information

Gene ID 54546

Other Names

RING finger protein 186, RNF186

Calculated MW

24145 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml
 Direct ELISA, 0.1-0.5 µg/ml

Subcellular Localization

Membrane ; Multi-pass membrane protein .

Contents

Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Na₃.

Immunogen

E. coli-derived human RNF186 recombinant protein (Position: R86-L159).

Cross Reactivity

No cross reactivity with other proteins.

Storage

At -20°C; for one year. After r°Constitution, at 4°C; for one month. It°Can also be aliquotted and stored frozen at -20°C; for a longer time. Avoid repeated freezing and thawing.

Anti-RNF186 Picoband Antibody - 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

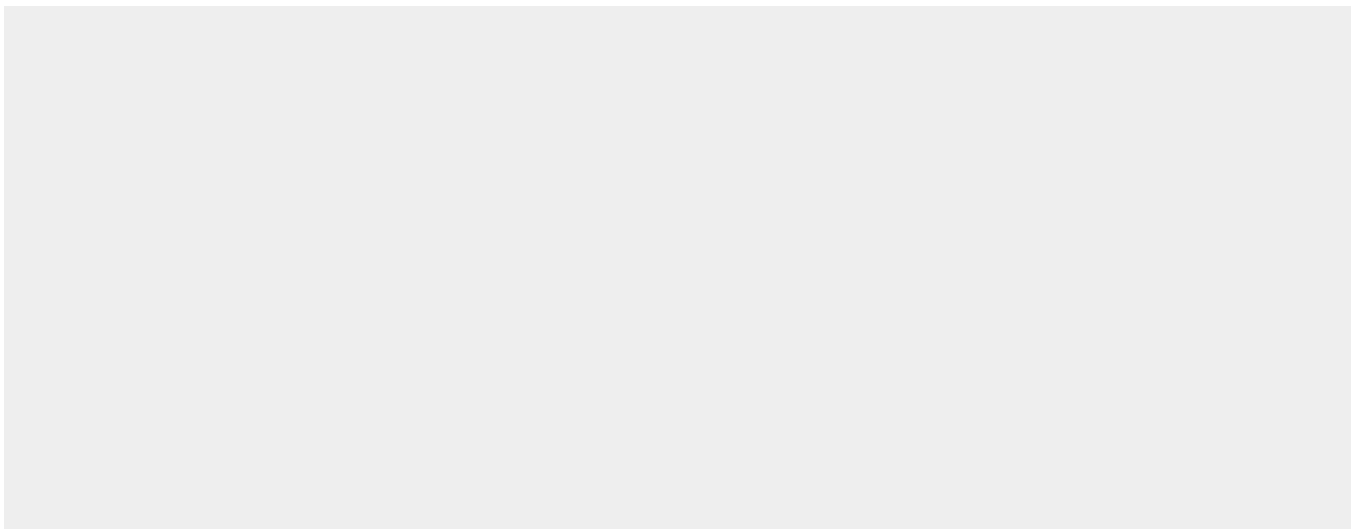
Endoplasmic reticulum membrane; Multi-pass membrane protein

Anti-RNF186 Picoband Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-RNF186 Picoband Antibody - Images



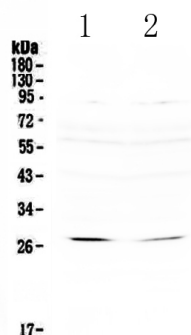


Figure 1. Western blot analysis of RNF186 using anti-RNF186 antibody (ABO13078).

Anti-RNF186 Picoband Antibody - Background

RNF186 is an E3 ubiquitin ligase that regulates endoplasmic reticulum (ER) stress and apoptosis through its interaction with BNIP1. This gene is mapped to chromosome 1p36.13 based on an alignment of the RNF186 sequence with the genomic sequence (GRCh38). Cotransfection and immunoprecipitation analyses showed that RNF186, through its transmembrane domains, interacted with BNIP1. Overexpression of RNF186 promoted BNIP1 ubiquitination and transfer of BNIP1 to mitochondria.