

Anti-RNF186 Picoband Antibody

Catalog # ABO13078

Product Information

Application	WB, E
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.

Additional Information

Gene ID	54546
Other Names	RING finger protein 186, RNF186
Calculated MW	24145
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 .
Source	Eukaryota
Contents	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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.

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

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.

Images

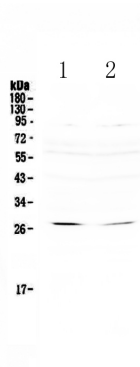


Figure 1. Western blot analysis of RNF186 using anti-RNF186 antibody (ABO13078).

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