

Anti-Rab18 Picoband Antibody
Catalog # ABO12477**Specification****Anti-Rab18 Picoband Antibody - Product Information**

Application	WB
Primary Accession	Q9NP72
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Ras-related protein Rab-18(RAB18) detection. Tested with WB in Human;Rat.

Reconstitution

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

Anti-Rab18 Picoband Antibody - Additional Information

Gene ID 22931

Other Names

Ras-related protein Rab-18, RAB18

Calculated MW

22977 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human, Rat

Subcellular Localization

Cell membrane ; Lipid-anchor ; Cytoplasmic side .

Tissue Specificity

Ubiquitous.

Protein Name

Ras-related protein Rab-18

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Na₃.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human Rab18 (156-192aa DGVQCAFEELVEKIIQTPGLWESENQNKGVKLSHREE), identical to the related mouse sequence, and different from the related rat sequence by one amino acid.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins.

Storage

At -20°C for one year. After reconstitution, 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-Rab18 Picoband Antibody - Protein Information

Name RAB18

Function

The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes (PubMed: [24891604](http://www.uniprot.org/citations/24891604), PubMed: [30970241](http://www.uniprot.org/citations/30970241)). Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes different sets of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion (PubMed: [24891604](http://www.uniprot.org/citations/24891604), PubMed: [30970241](http://www.uniprot.org/citations/30970241)). Required for the localization of ZFYVE1 to lipid droplets and for its function in mediating the formation of endoplasmic reticulum-lipid droplets (ER-LD) contacts (PubMed: [30970241](http://www.uniprot.org/citations/30970241)). Also required for maintaining endoplasmic reticulum structure (PubMed: [24891604](http://www.uniprot.org/citations/24891604)). Plays a role in apical endocytosis/recycling (By similarity). Plays a key role in eye and brain development and neurodegeneration (PubMed: [21473985](http://www.uniprot.org/citations/21473985)).

Cellular Location

Apical cell membrane {ECO:0000250|UniProtKB:P35293}. Lipid droplet. Endoplasmic reticulum membrane

Tissue Location

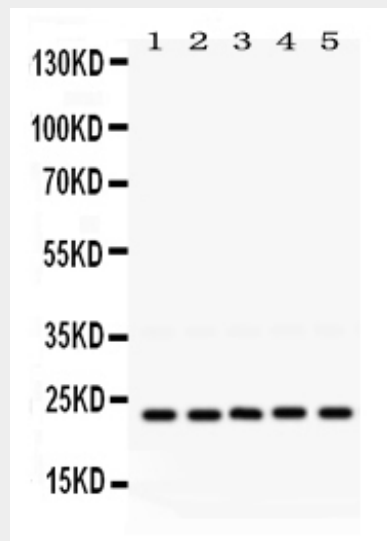
Ubiquitous.

Anti-Rab18 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-Rab18 Picoband Antibody - Images



Anti- Rab18 Picoband antibody, ABO12477, Western blotting All lanes: Anti Rab18 (ABO12477) at 0.5ug/ml Lane 1: Rat Testis Tissue Lysate at 50ug Lane 2: Rat Lung Tissue Lysate at 50ug Lane 3: 293T Whole Cell Lysate at 40ug Lane 4: HELA Whole Cell Lysate at 40ug Lane 5: HEPG2 Whole Cell Lysate at 40ug Predicted bind size: 23KD Observed bind size: 23KD

Anti-Rab18 Picoband Antibody - Background

Ras-related protein Rab-18 is a protein that in humans is encoded by the RAB18 gene. It is a ubiquitously expressed protein with particularly high expression in the brain. The protein encoded by this gene is a member of a family of Ras-related small GTPases that regulate membrane trafficking in organelles and transport vesicles. Knockdown studies in zebrafish suggest that this protein may have a role in eye and brain development. Mutations in this gene are associated with Warburg micro syndrome type 3. Alternatively spliced transcript variants have been found for this gene.