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RNF167 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP59189

Specification

RNF167 Polyclonal Antibody - Product Information

Application	**IHC-F, IF, E**
Primary Accession	Q9H6Y7
Reactivity	**Rat, Pig, Dog, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**36 KDa**
Physical State	**Liquid**
Immunogen	**KLH conjugated synthetic peptide derived from human RNF167**
Epitope Specificity	**201-300/350**
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	**Endomembrane system. Targeted to cytoplasmic membranes.**
SIMILARITY	**Contains 1 PA (protease associated) domain. Contains 1 RING-type zinc finger.**
SUBUNIT	**Interacts with SLC22A18.**
Post-translational modifications	**Auto-ubiquitinated in vitro in the presence of UBE2D1 and UBE2E1.**
Important Note	**This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.**

Background Descriptions
May act as an E3 ubiquitin-protein ligase, or as part of the E3 complex, which accepts ubiquitin from specific E2 ubiquitin-conjugating enzymes, such as UBE2E1, and then transfers it to substrates, such as SLC22A18. May play a role in growth regulation involved in G1/S transition.

RNF167 Polyclonal Antibody - Additional Information

Gene ID 26001

Other Names
E3 ubiquitin-protein ligase RNF167, 2.3.2.27, RING finger protein 167, RING-type E3 ubiquitin transferase RNF167, RING105, RNF167

Target/Specificity
Strongly expressed in the kidney and liver (at protein level).

Dilution

IHC-F~~N/A<br \>IF~~1:50~200<br \>E~~N/A

Format
0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage
Store at -20 ℃ 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 ℃.

RNF167 Polyclonal Antibody - Protein Information

Name RNF167 {ECO:0000303|PubMed:23353890, ECO:0000312|HGNC:HGNC:24544}

Function
E3 ubiquitin-protein ligase that acts as a regulator of the TORC1 signaling pathway (PubMed:33594058, PubMed:35114100). Positively regulates the TORC1 signaling pathway independently of arginine levels: acts by catalyzing 'Lys-29'-polyubiquitination and degradation of CASTOR1, releasing the GATOR2 complex from CASTOR1 (PubMed:33594058). Also negatively regulates the TORC1 signaling pathway in response to leucine deprivation: acts by mediating 'Lys-63'-linked polyubiquitination of SESN2, promoting SESN2-interaction with the GATOR2 complex (PubMed:35114100). Also involved in protein trafficking and localization (PubMed:23129617, PubMed:23353890, PubMed:24387786, PubMed:27808481, PubMed:32409562). Acts as a regulator of synaptic transmission by mediating ubiquitination and degradation of AMPAR receptor GluA2/GRIA2 (PubMed:23129617, PubMed:33650289). Does not catalyze ubiquitination of GluA1/GRIA1 (PubMed:23129617). Also acts as a regulator of the recycling endosome pathway by mediating ubiquitination of VAMP3 (PubMed:23353890). Regulates lysosome positioning by catalyzing ubiquitination and degradation of ARL8B (PubMed:27808481). Plays a role in growth regulation involved in G1/S transition by mediating, possibly by mediating ubiquitination of SLC22A18 (PubMed:16314844). Acts with a limited set of E2 enzymes, such as UBE2D1 and UBE2N (PubMed:33650289).

Cellular Location
Lysosome membrane; Single-pass type I membrane protein. Endosome membrane; Single-pass type I membrane protein. Endomembrane system; Single-pass membrane protein. Cell membrane; Single-pass type I membrane protein. Note=Targeted to cytoplasmic membranes; mainly localizes to lysosomal membrane (PubMed:16314844, PubMed:23129617). A subpopulation localizes to the cell membrane of neurons (PubMed:23129617). [Isoform 2]: Cytoplasm, cytosol

Tissue Location
Widely expressed (PubMed:23129617). Strongly expressed in the kidney, pancreas, testis and liver

(at protein level) (PubMed:16314844, PubMed:23129617).

RNF167 Polyclonal 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 Cytomety
- Cell Culture

RNF167 Polyclonal Antibody - Images