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RNF167 Rabbit pAb

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Catalog # AP59189

Product Information

Primary Accession	Q9H6Y7
Predicted	Rat, Pig, Dog, Human, Mouse, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	38299
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.
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.

Additional Information

Gene ID	26001
Other Names	E3 ubiquitin-protein ligase RNF167, 2.3.2.27, RING finger protein 167, RNF167 {ECO:0000303|PubMed:23353890, ECO:0000312|HGNC:HGNC:24544}
Dilution	ELISA=1:5000-10000
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	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).

Background

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