

**RNF5 Antibody (Center) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP12440c****Specification**

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**RNF5 Antibody (Center) Blocking peptide - Product Information**Primary Accession [Q99942](#)**RNF5 Antibody (Center) Blocking peptide - Additional Information****Gene ID** 6048**Other Names**

E3 ubiquitin-protein ligase RNF5, 632-, Protein G16, RING finger protein 5, Ram1 homolog, HsRma1, RNF5, G16, NG2, RMA1

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**RNF5 Antibody (Center) Blocking peptide - Protein Information****Name** RNF5 {ECO:0000303|PubMed:9533025, ECO:0000312|HGNC:HGNC:10068}**Function**

Membrane-bound E3 ubiquitin-protein ligase that mediates ubiquitination of target proteins (PubMed:<a href="http://www.uniprot.org/citations/11329381" target="\_blank">11329381</a>, PubMed:<a href="http://www.uniprot.org/citations/12861019" target="\_blank">12861019</a>, PubMed:<a href="http://www.uniprot.org/citations/16176924" target="\_blank">16176924</a>, PubMed:<a href="http://www.uniprot.org/citations/19285439" target="\_blank">19285439</a>, PubMed:<a href="http://www.uniprot.org/citations/19269966" target="\_blank">19269966</a>). May function together with E2 ubiquitin-conjugating enzymes UBE2D1/UBCH5A and UBE2D2/UBC4 (PubMed:<a href="http://www.uniprot.org/citations/11329381" target="\_blank">11329381</a>). Mediates ubiquitination of PXN/paxillin, thereby regulating cell motility and localization of PXN/paxillin (PubMed:<a href="http://www.uniprot.org/citations/12861019" target="\_blank">12861019</a>). Catalyzes ubiquitination of Salmonella type III secreted protein sopA (PubMed:<a href="http://www.uniprot.org/citations/16176924" target="\_blank">16176924</a>). Mediates the 'Lys- 63'-linked polyubiquitination of JKAMP thereby regulating JKAMP function by decreasing its association with components of the proteasome and ERAD; the ubiquitination appears to involve E2 ubiquitin-conjugating enzyme UBE2N (PubMed:<a href="http://www.uniprot.org/citations/19269966" target="\_blank">19269966</a>). Mediates the 'Lys-48'-linked polyubiquitination of STING1 at

'Lys-150' leading to its proteasomal degradation; the ubiquitination occurs in mitochondria after viral transfection and regulates antiviral responses (PubMed:<a href="http://www.uniprot.org/citations/19285439" target="\_blank">19285439</a>). Catalyzes ubiquitination and subsequent degradation of ATG4B, thereby inhibiting autophagy (PubMed:<a href="http://www.uniprot.org/citations/23093945" target="\_blank">23093945</a>).

**Cellular Location**

Cell membrane; Multi-pass membrane protein. Mitochondrion membrane; Multi-pass membrane protein. Endoplasmic reticulum membrane; Multi-pass membrane protein. Note=Predominantly located in the plasma membrane, with some localization occurring within cytoplasmic organelles

**Tissue Location**

Widely expressed..

**RNF5 Antibody (Center) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**RNF5 Antibody (Center) Blocking peptide - Images****RNF5 Antibody (Center) Blocking peptide - Background**

The protein encoded by this gene contains a RING finger, which is a motif known to be involved in protein-protein interactions. This protein is a membrane-bound ubiquitin ligase. It can regulate cell motility by targeting paxillin ubiquitination and altering the distribution and localization of paxillin in cytoplasm and cell focal adhesions.

**RNF5 Antibody (Center) Blocking peptide - References**

Barcellos, L.F., et al. PLoS Genet. 5 (10), E1000696 (2009) :Tcherpakov, M., et al. J. Biol. Chem. 284(18):12099-12109(2009) Zhong, B., et al. Immunity 30(3):397-407(2009) McKinnon, E., et al. Diabetes Obes Metab 11 SUPPL 1, 92-100 (2009) :Bromberg, K.D., et al. Cancer Res. 67(17):8172-8179(2007)