

RNF135 Antibody(C-term) Blocking peptide
Synthetic peptide
Catalog # BP19376b**Specification**

RNF135 Antibody(C-term) Blocking peptide - Product InformationPrimary Accession [Q8IUD6](#)**RNF135 Antibody(C-term) Blocking peptide - Additional Information****Gene ID** 84282**Other Names**

E3 ubiquitin-protein ligase RNF135, 632-, RIG-I E3 ubiquitin ligase, REUL, RING finger protein 135, Riplet, RNF135

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.

RNF135 Antibody(C-term) Blocking peptide - Protein Information**Name** RNF135 ([HGNC:21158](#))**Function**

E2-dependent E3 ubiquitin-protein ligase that functions as a RIG-I coreceptor in the sensing of viral RNAs in cell cytoplasm and the activation of the antiviral innate immune response (PubMed:19017631, PubMed:19484123, PubMed:21147464, PubMed:23950712, PubMed:28469175, PubMed:31006531). Together with the UBE2D3, UBE2N and UB2V1 E2 ligases, catalyzes the 'Lys-63'-linked polyubiquitination of RIG-I oligomerized on viral RNAs, an essential step in the activation of the RIG-I signaling pathway (PubMed:19017631, PubMed:21147464, PubMed:28469175, PubMed:31006531). Through a ubiquitin-independent parallel mechanism, which consists in bridging RIG-I filaments forming on longer viral RNAs, further activates the RIG-I signaling pathway (PubMed:31006531). This second

mechanism that synergizes with the ubiquitin-dependent one would thereby allow an RNA length-dependent regulation of the RIG-I signaling pathway (Probable). Associated with the E2 ligase UBE2N, also constitutively synthesizes unanchored 'Lys-63'-linked polyubiquitin chains that may also activate the RIG-I signaling pathway (PubMed:28469175, PubMed:31006531).

Cellular Location

Cytoplasm. Cytoplasm, Stress granule

Tissue Location

Expressed in skeletal muscle, spleen, kidney, placenta, prostate, stomach, thyroid and tongue. Also weakly expressed in heart, thymus, liver and lung.

RNF135 Antibody(C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

RNF135 Antibody(C-term) Blocking peptide - Images**RNF135 Antibody(C-term) Blocking peptide - Background**

The protein encoded by this gene contains a RING finger domain, a motif present in a variety of functionally distinct proteins and known to be involved in protein-protein and protein-DNA interactions. This gene is located in a chromosomal region known to be frequently deleted in patients with neurofibromatosis. Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq].

RNF135 Antibody(C-term) Blocking peptide - References

Zhao, J., et al. BMC Med. Genet. 11, 96 (2010) :You, F., et al. Nat. Immunol. 10(12):1300-1308(2009)Visser, R., et al. Am. J. Med. Genet. A 149A (4), 806-808 (2009) :Oshiumi, H., et al. J. Biol. Chem. 284(2):807-817(2009)Gao, D., et al. PLoS ONE 4 (6), E5760 (2009) :