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

Specification

RNF135 Antibody(C-term) Blocking peptide - Product Information

Primary 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 RIGI 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 RIGI 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 RIGI 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 fingerdomain, a motif present in a variety of functionally distinctproteins and known to be involved in protein-protein andprotein-DNA interactions. This gene is located in a chromosomalregion known to be frequently deleted in patients withneurofibromatosis. Alternatively spliced transcript variantsencoding distinct isoforms have been reported. [provided byRefSeq].

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) :