

**RNF135 Antibody(C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP19376b****Specification**

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**RNF135 Antibody(C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q8IUD6</a>
Other Accession	<a href="#">NP_115698.3</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	47888
Antigen Region	375-401

**RNF135 Antibody(C-term) - 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

**Target/Specificity**

This RNF135 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 375-401 amino acids from the C-terminal region of human RNF135.

**Dilution**

WB~~1:500

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

RNF135 Antibody(C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**RNF135 Antibody(C-term) - 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**

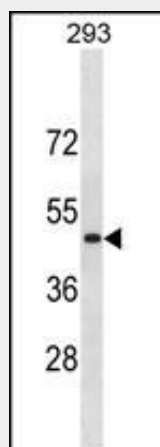
Expressed in skeletal muscle, spleen, kidney, placenta, prostate, stomach, thyroid and tongue. Also weakly expressed in heart, thymus, liver and lung.

#### **RNF135 Antibody(C-term) - Protocols**

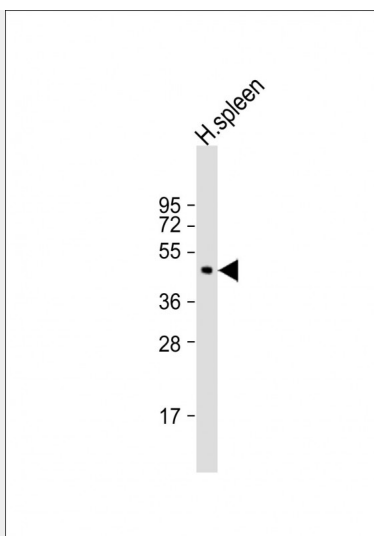
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **RNF135 Antibody(C-term) - Images**



RNF135 Antibody (C-term)(Cat. #AP19376b) western blot analysis in 293 cell line lysates (35ug/lane). This demonstrates the RNF135 antibody detected the RNF135 protein (arrow).



Anti-RNF135 Antibody (C-term) at 1:500 dilution + human spleen lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 48 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

#### **RNF135 Antibody(C-term) - 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) - 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) :