

Recombinant Human RNF135 Protein (A2-V432), His tagged

Cat. No. RNF135-0411H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human 6His-TEV-(GG)-RNF135(A2-V432 end) Protein was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	A2-V432
Description	E2-dependent E3 ubiquitin-protein ligase that functions as a RIG-I/DDX58 coreceptor in the sensing of viral RNAs in cell cytoplasm and the activation of the antiviral innate immune response. Together with the UBE2D3, UBE2N and UB2V1 E2 ligases, catalyzes the 'Lys-63'-linked polyubiquitination of RIG-I/DDX58 oligomerized on viral RNAs, an essential step in the activation of the RIG-I signaling pathway. Through a ubiquitin-independent parallel mechanism, which consists in bridging RIG-I/DDX58 filaments forming on longer viral RNAs, further activates the RIG-I signaling pathway. 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.
Form	Liquid
Endotoxin	< 0.01 EU per

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	µg of the protein
Purity	90%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	RNF135 ring finger protein 135 [Homo sapiens (human)]
Official Symbol	RNF135
Synonyms	RNF135; ring finger protein 135; E3 ubiquitin-protein ligase RNF135; MGC13061; riplet; RIG-I E3 ubiquitin ligase; L13; MMFD; REUL; Riplet;
Gene ID	84282
mRNA Refseq	NM_001184992
Protein Refseq	NP_001171921
MIM	611358

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UniProt ID

Q8IUD6

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