

Recombinant Mouse Rnf135 Protein, Myc/DDK-tagged

Cat. No. Rnf135-5546M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length ring finger protein 135 (Rnf135), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
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. Associated with the E2 ligase UBE2N, also constitutively synthesizes unanchored 'Lys-63'-linked polyubiquitin chains that may also activate the RIG-I signaling pathway. It is not involved in the innate immune response against DNA viruses.
Molecular Mass	46.5 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and

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handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade after receiving vials.

Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Rnf135 ring finger protein 135 [Mus musculus (house mouse)]

Official Symbol Rnf135

Synonyms RNF135; ring finger protein 135; E3 ubiquitin-protein ligase RNF135; Riplet; U 2-3-0; RP23-345E8.1; 0610037N03Rik; 2410006N06Rik; MGC13061

Gene ID 71956

mRNA Refseq NM_028019

Protein Refseq NP_082295

UniProt ID Q9CWS1

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