

Recombinant Human RNF146 Protein (M2-V359), His tagged

Cat. No. RNF146-0435H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human 6His-TEV-(GG)-RNF146(M2-V359 end) Protein was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	M2-V359
Description	E3 ubiquitin-protein ligase that specifically binds poly-ADP-ribosylated (PARsylated) p roteins and mediates their ubiquitination and subsequent degradation. May regulate many important biological processes, such as cell survival and DNA damage respons e. Acts as an activator of the Wnt signaling pathway by mediating the ubiquitination of PARsylated AXIN1 and AXIN2, 2 key components of the beta-catenin destruction co mplex. Acts in cooperation with tankyrase proteins (TNKS and TNKS2), which mediat e PARsylation of target proteins AXIN1, AXIN2, BLZF1, CASC3, TNKS and TNKS2. Recognizes and binds tankyrase-dependent PARsylated proteins via its WWE domai n and mediates their ubiquitination, leading to their degradation. Different ubiquitin lin kage types have been observed: TNKS2 undergoes ubiquitination at 'Lys-48' and 'Ly s-63', while AXIN1 is only ubiquitinated at 'Lys-48'. May regulate TNKS and TNKS2 s ubcellular location, preventing aggregation at a centrosomal location. Neuroprotective protein. Protects the brain against N-methyl-D-aspartate (NMDA) receptor-mediated g lutamate excitotoxicity and ischemia, by interfering with PAR-induced cell death, calle d parthanatos. Prevents nuclear translocation of AIFM1 in a PAR-binding dependent

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manner. Does not affect PARP1 activation. Protects against cell death induced by DNA damaging agents, such as N-methyl-N-nitro-N-nitrosoguanidine (MNNG) and rescues cells from G1 arrest. Promotes cell survival after gamma-irradiation. Facilitates DNA repair.

Form	Liquid
Endotoxin	< 0.01 EU per 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	RNF146 ring finger protein 146 [Homo sapiens (human)]
Official Symbol	RNF146
Synonyms	RNF146; ring finger protein 146; E3 ubiquitin-protein ligase RNF146; dactylidin; dJ351K20.1; DKFZp434O1427; 2610509H23Rik; RP3-351K20.1;
Gene ID	81847

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mRNA Refseq	NM_001242844
Protein Refseq	NP_001229773
MIM	612137
UniProt ID	Q9NTX7

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