

Active Recombinant Human RANBP2 Protein, GST-tagged

Cat. No. RANBP2-2386H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human RANBP2 protein (aa 2553-2838) with GST tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	2553-2838 a.a.
Description	RAN is a small GTP-binding protein of the RAS superfamily that is associated with the nuclear membrane and is thought to control a variety of cellular functions through its interactions with other proteins. This gene encodes a very large RAN-binding protein that immunolocalizes to the nuclear pore complex. The protein is a giant scaffold and mosaic cyclophilin-related nucleoporin implicated in the Ran-GTPase cycle. The encoded protein directly interacts with the E2 enzyme UBC9 and strongly enhances SUMO1 transfer from UBC9 to the SUMO1 target SP100. These findings place sumoylation at the cytoplasmic filaments of the nuclear pore complex and suggest that, for some substrates, modification and nuclear import are linked events. This gene is partially duplicated in a gene cluster that lies in a hot spot for recombination on chromosome 2q.
Form	Liquid
Bio-activity	The enzyme facilitates in vitro SUMOylation using SUMO-1, SUMO E1, and SUMO E2 Ubch9.

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Molecular Mass	59 kDa
Purity	≥90% (SDS-PAGE)
Storage	-80 centigrade.
Storage Buffer	In 20mM HEPES, pH7.3 containing 110mM potassium acetate, 2mM magnesium acetate, 0.8mM EGTA, 1mM DTT.

GENE INFORMATION

Gene Name	RANBP2 RAN binding protein 2 [Homo sapiens (human)]
Official Symbol	RANBP2
Synonyms	RANBP2; RAN binding protein 2; ANE1; TRP1; TRP2; ADANE; IIAE3; NUP358; E3 SUMO-protein ligase RanBP2; 358 kDa nucleoporin; E3 SUMO-protein transferase RanBP2; P270; acute necrotizing encephalopathy 1 (autosomal dominant); nucleoporin Nup358; ran-binding protein 2; transformation-related protein 2; EC 5.2.1.8
Gene ID	5903
mRNA Refseq	NM_006267
Protein Refseq	NP_006258
MIM	601181
UniProt ID	P49792

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