

Recombinant Human Ran GTPase Activating Protein 1, GST-tagged

Cat. No. RANGAP1-682H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human RanGAP1 produced in <i>E. coli</i> fused to a GST-tag.
Species	Human
Source	E.coli
Description	RanGTPase-activating RanGAP1 was the first protein shown to be post-translationally modified with SUMO. In higher eukaryotes, the cellular localization of RanGAP1 is regulated by SUMOylation of its C-terminal domain. The target lysines of RanGAP1, as well as the C-terminus of mature SUMO-1, lie within mobile regions of the two proteins. Upon SUMOylation, RanGAP1 and SUMO-1 behave as "beads-on-a-string" joined by a flexible isopeptide tether and their structures and local dynamic features do not change significantly beyond the site of this covalent linkage.
Source/Host	E. coli.
Application	RanGAP1 acts as a very good control substrate for use in SUMOylation assays producing a product with a single SUMO modification as shown above.
Long Term Storage	-80°C.

GENE INFORMATION

Gene Name	RANGAP1 Ran GTPase activating protein 1 [Homo sapiens]
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Synonyms	Ran GTPase activating protein 1; SD; Fug1; KIAA1835; MGC20266; RANGAP1; ran GTPase-activating protein 1; segregation distortion; segregation distorter homolog; segregation distorter homolog (Drosophila); OTTHUMP00000198756; OTTHUMP00000198757; RanGAP1
Gene ID	5905
mRNA Refseq	NM_002883
Protein Refseq	NP_002874
MIM	602362
UniProt ID	P46060
Chromosome Location	22q13
Pathway	Cell Cycle, Mitotic
Function	GTPase activator activity; Ran GTPase activator activity; protein binding
PDB rendering based on 1z5s.	