

Recombinant Human SUMO1, His-tagged

Cat. No. SUMO1-249H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human SUMO1 (UBL1) (2-97) was expressed in E. coli cells using an N-terminal His tag.
Species	Human
Source	E.coli
ProteinLength	2-97 a.a.
Description	SUMO1 (also known as UBL1) is a member of the SUMO (small ubiquitin-like modifier) protein family which functions in a manner similar to ubiquitin. SUMO1 is bound to target proteins as part of a post-translational modification system and it is involved in a variety of cellular processes, such as nuclear transport, transcriptional regulation, apoptosis, and protein stability. SUMO1 may be involved in the repair of TOP1-mediated DNA damage. The sumoylation pathway plays a significant role in mammalian DNA damage response.
Form	Recombinant protein stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Molecular Mass	~19 kDa
Purity	>90% by densitometry
Applications	Western Blot

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Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 µg/µl
GENE INFORMATION	
Gene Name	SUMO1 SMT3 suppressor of mif two 3 homolog 1 (S. cerevisiae) [Homo sapiens]
Official Symbol	SUMO1
Synonyms	SUMO1; SMT3 suppressor of mif two 3 homolog 1 (S. cerevisiae); SMT3 suppressor of mif two 3 homolog 1 (yeast) , ubiquitin like 1 (sentrin) , UBL1; small ubiquitin-related modifier 1; GMP1; OFC10; PIC1; SMT3C; SMT3H3; SUMO 1; sentrin; SMT3 homolog 3; GAP modifying protein 1; ubiquitin-like protein UBL1; ubiquitin-like protein SMT3C; ubiquitin-homology domain protein PIC1; DAP1; SMT3; UBL1; SENP2;
Gene ID	7341
mRNA Refseq	NM_001005781
Protein Refseq	NP_001005781
MIM	601912
UniProt ID	P63165
Chromosome Location	2q33

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Pathway

Cytokine Signaling in Immune system, organism-specific biosystem; Diurnally regulated genes with circadian orthologs, organism-specific biosystem; Immune System, organism-specific biosystem; Interferon Signaling, organism-specific biosystem; Interferon gamma signaling, organism-specific biosystem; Nuclear pore complex, organism-specific biosystem; RNA transport, organism-specific biosystem;

Function

protein binding; ubiquitin protein ligase binding;

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