

Recombinant Human SAR1 Homolog A (*S. cerevisiae*) , His-tagged

Cat. No. SAR1A-479H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SAR1A, fused to His-tag at N-terminus, was expressed in <i>E. coli</i> and purified by using conventional chromatography techniques. MW = 24.5 kDa (218aa).
Species	Human
Source	<i>E. coli</i>
Description	SAR1a gene homolog 1, also known as SAR1A, belongs to the small GTPase superfamily. Sar1 is an essential component of COPII vesicle coats involved in export of cargo from the ER. The GTPase activity of Sar1 functions as a molecular switch to control protein-protein and protein-lipid interactions that direct vesicle budding from the ER. GDP-bound Sar1 interacts with the membrane-bound exchange factor Sec12 and exchanges its bound GDP for GTP.
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MSFIFEWIYN GFSSVLQFLG LYKKSGLVFLGLDNAGKTT LLHMLKDDRL GQHVPTLHPT SEELTIAGMT FTTFDLGGHEQARRVWKNYL PAINGIVFLV DCADHSRLVE SKVELNALMT DETISNPILILGNKIDRTD AISEEKLREI FGLYGQTTGK GNVTLKELNA RPMEVFMCSVLKRQGYGEGF RWLSQYID
Form	Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 10% glycerol.
Purity	> 90% by SDS – PAGE.

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Concentration	1 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
GENE INFORMATION	
Gene Name	SAR1A SAR1 homolog A (<i>S. cerevisiae</i>) [<i>Homo sapiens</i>]
Synonyms	SAR1A; SAR1 homolog A (<i>S. cerevisiae</i>); SAR1; Sara; SARA1; masra2; OTTHUMP00000019744; OTTHUMP00000019745; OTTHUMP00000019748; SAR1 gene homolog A; SAR1a gene homolog (<i>S. cerevisiae</i>) 1;SARA; GTP-binding protein SAR1a; COPII-associated small GTPase; OTTHUMP00000019743; OTTHUMP00000060603; SAR1a gene homolog 1
Gene ID	56681
mRNA Refseq	NM_001142648
Protein Refseq	NP_001136120
MIM	607691
UniProt ID	Q9NR31
Chromosome Location	10q22.1
Function	GTP binding; GTPase activity; nucleotide binding