

Recombinant Human RAE1, His-tagged

Cat. No. RAE1-29369TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 76-368 of Human RAE1 with N terminal His tag; 293 amino acids, 36kDa.
Species	Human
Source	E.coli
ProteinLength	76-368 a.a.
Description	Mutations in the Schizosaccharomyces pombe Rae1 and Saccharomyces cerevisiae Gle2 genes have been shown to result in accumulation of poly(A)-containing mRNA in the nucleus, suggesting that the encoded proteins are involved in RNA export. The protein encoded by this gene is a homolog of yeast Rae1. It contains four WD40 motifs, and has been shown to localize to distinct foci in the nucleoplasm, to the nuclear rim, and to meshwork-like structures throughout the cytoplasm. This gene is thought to be involved in nucleocytoplasmic transport, and in directly or indirectly attaching cytoplasmic mRNPs to the cytoskeleton. Alternatively spliced transcript variants encoding the same protein have been found for this gene.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 97 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	QTIPKAQQMHTGPVLDVCWSDDGSKVFTASCDKTAKMWDL SSNQAIQIAQHDA PV KTIHWIKAPNYSCVMTGSDWDTL KFDWTRSSNPMMVLQLPERCYCADVIYPM AVV ATAERGLI VYQLENQPSEFRRIESPLKHQHRCVAIFKDKQNKPTGF ALGSIEGRVAI HYINPPNPAKDNFTFKCHRSNGTNTSA PQDIYAVNGIAFHPVHGT LATVGSDGRFSF WDKDARTKLK TSEQLDQPISACCFNHNGNIFAYASSYDWSKGHEFYNP QKKNYIFL RNAAEELKPRNKK
Sequence Similarities	Belongs to the WD repeat rae1 family.Contains 4 WD repeats.

GENE INFORMATION

Gene Name	RAE1 RAE1 RNA export 1 homolog (S. pombe) [Homo sapiens]
Official Symbol	RAE1
Synonyms	RAE1; RAE1 RNA export 1 homolog (S. pombe); RAE1 (RNA export 1, S.pombe) homolog; mRNA export factor; Mnrp41;
Gene ID	8480
mRNA Refseq	NM_001015885
Protein Refseq	NP_001015885
MIM	603343
Uniprot ID	P78406

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Chromosome Location	20
Pathway	Export of Viral Ribonucleoproteins from Nucleus, organism-specific biosystem; Formation and Maturation of mRNA Transcript, organism-specific biosystem; Gene Expression, organism-specific biosystem; Glucose transport, organism-specific biosystem; HIV Infection, organism-specific biosystem;
Function	RNA binding; microtubule binding;

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