

Recombinant Human RAE1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. RAE1-2268H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RAE1 MS Standard C13 and N15-labeled recombinant protein (NP_003601) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	41 kDa
AA Sequence	MSLFGTTSGFGTSGTSMFGSATTDNHNPMKDIEVTSSPDDSIGCLSFSPPTLPGNFL IAGSWANDVRCWEVQDSGQTIPKAQQMHTGPVLDVCWSDDGSKVFTASCDKTAK MWDLSSNQAIQIAQHDAPVKTIHWIKAPNYSVMTGSDKTLKFDWTRSSNPMMVL QLPERCYCADVIYPMAVVATAERGLIVYQLENQPSEFRRIESPLKHQHRCVAIFKDK

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QNKPTGFALGSIEGRVAIHYNPPNPAKDNFTFKCHRSNGTNTSAPQDIYAVNGIAFH
PVHGTLATVGS DGRFSFWDKDARTKLKTSEQLDQPISACCFNHNGNIFAYASSYDW
SKGHEFYNPQKKNYIFLRNAAEELKPRNKKTRTRPLEQKLISEEDLAANDILDYKDDD
DKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name RAE1 ribonucleic acid export 1 [Homo sapiens (human)]

Official Symbol RAE1

Synonyms RAE1; RAE1 RNA export 1 homolog (S. pombe); RAE1 (RNA export 1, S.pombe) homolog; mRNA export factor; Mnrp41; mRNA export protein; rae1 protein homolog; migration-inducing gene 14; mRNA-binding protein, 41-kD; mRNA-associated protein MRNP 41; homolog of yeast Rae1 (Bharathi) mRNA-associated protein of 41 kDa (Kraemer); MIG14; MRNP41; dJ481F12.3; dJ800J21.1; FLJ30608; MGC117333; MGC126076; MGC126077;

Gene ID 8480

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mRNA Refseq	NM_003610
Protein Refseq	NP_003601
MIM	603343
UniProt ID	P78406
SDS-PAGE	