

Recombinant Full Length Human RAE1 Protein, Flag tagged

Cat. No. RAE1-44HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human RAE1 RNA export 1 homolog (<i>S. pombe</i>) (RAE1), transcript variant 1 with C-Flag tag was expressed in HEK293T.
Species	Human
Source	HEK293T
ProteinLength	1-368 aa
Description	Mutations in the <i>Schizosaccharomyces pombe</i> Rae1 and <i>Saccharomyces cerevisiae</i> 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.
Form	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Molecular Mass	40.8 kDa
AASequence	MSLFGTTSGFGTSGTSMFGSATTDNHNPMKDIEVTSSPDDSIGCLSFSPPTLPGNFL IAGSWANDVRCWEVQDSGQTIPKAQQMHTGPVLDVCWSDDGSKVFTASCDKTAK

 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

MWDLSSNQAIQIAQHDAPVKTIHWIKAPNYSCVMTGSDKTLKFWDTRSSNPMMVL
QLPERCYCADVIYPMVAVATAERGLIVYQLENQPSEFRRIESPLKHQHRCVAIFKDK
QNKPTGFALGSIEGRVAIHYNPPNPAKDNFTFKCHRSNGTNTSAPQDIYAVNGIAFH
PVHGTLATVGS DGRFSFWDKDARTKLKTSEQLDQPISACCFNHNGNIFAYASSYDW
SKGHEFYNPQKKNYIFLRNAAEELKPRNKKTRTRPLEQKLISEEDLAANDILDYKDDD
DKV

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

Notes For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage Store at -80 centigrade. Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Concentration >0.05 µg/µL as determined by microplate BCA method

GENE INFORMATION

Gene Name [RAE1](#) [RAE1 RNA export 1 homolog \(S. pombe\)](#) [[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

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