

Recombinant Full Length Human CEP57 Protein, GST-tagged

Cat. No. CEP57-3234HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CEP57 full-length ORF (NP_055494.2, 1 a.a. - 500 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	500 amino acids
Description	This gene encodes a cytoplasmic protein called Translokain. This protein localizes to the centrosome and has a function in microtubular stabilization. The N-terminal half of this protein is required for its centrosome localization and for its multimerization, and the C-terminal half is required for nucleating, bundling and anchoring microtubules to the centrosomes. This protein specifically interacts with fibroblast growth factor 2 (FGF2), sorting nexin 6, Ran-binding protein M and the kinesins KIF3A and KIF3B, and thus mediates the nuclear translocation and mitogenic activity of the FGF2. It also interacts with cyclin D1 and controls nucleocytoplasmic distribution of the cyclin D1 in quiescent cells. This protein is crucial for maintaining correct chromosomal number during cell division. Mutations in this gene cause mosaic variegated aneuploidy syndrome, a rare autosomal recessive disorder. Multiple alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Aug 2011]
Molecular Mass	80.63 kDa

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AA Sequence	MAAASVSAASGSHLSNSFAEPSRSNGSMVRHSSSPYVVYPSDKPFLNSDLRRSPS KPTLAYPESNSRAIFSALKNLQDKIRRLERLIERIQAEESVKTLRSRETIEYKKVLDEQIQE RENSKNEESKHNLQELTSQLLAAENKCNLLEKQLEYMRNMIKHAEMERTSVLEKQVS LERERQHDQTHVQSQLEKLDLLEQEYNKLTMMQALAEKKMQELEAKLHEEEQERKR MQAKAAELQTGLETNRLIFEDKATPCVNPARRIKKKKSKPPEKKSSRNYFGAQPHYR LCLGDMFPFVAGKSTSPSHAVVANVQLVLHLMKQHSKALCNDRVINSIPLAKQVSSRG GKSKKLSVTPPSSNGINEELSEVLQTLQDEFGQMSFDHQQLAKLIQESPTVELKDKL ECELEALVGRMEAKANQITKVRKYQAQLEKQKLEKQKKELKATKKTLDEERNSSSR SGITGTTNKKDFMKLRPGEKRRKNLQLLKDMQSIQNSLQSSSLCWDY
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	CEP57 centrosomal protein 57kDa [Homo sapiens]
Official Symbol	CEP57
Synonyms	CEP57; centrosomal protein 57kDa; centrosomal protein of 57 kDa; KIAA0092; Translokin; TSP57; translokin; FGF2-interacting protein; testis-specific protein 57; proliferation-inducing protein 8; MVA2; PIG8;
Gene ID	9702

mRNA Refseq	NM_001243776
Protein Refseq	NP_001230705
MIM	607951
UniProt ID	Q86XR8

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