

Recombinant Human CEP57 Protein, His&GST-tagged

Cat. No. CEP57-744H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CEP57 Protein (Ser347-Tyr500) with His&GST tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ser347-Tyr500
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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 47.7 kDa; Accurate Molecular Mass: 48 kDa

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Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	CEP57 centrosomal protein 57kDa [Homo sapiens (human)]
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

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MIM	607951
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UniProt ID	Q86XR8
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