# Recombinant Human CEP57 Protein, His&GST-tagged

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

## SPECIFICATION

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| **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 Translokin. 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

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| **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 |
| **UniProt ID** | Q86XR8 |

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