

Recombinant Human CASC5 Protein, His&GST-tagged

Cat. No. CASC5-620H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CASC5 Protein (Met1-Ala277) with His&GST tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met1-Ala277
Description	The protein encoded by this gene is a component of the multiprotein assembly that is required for creation of kinetochore-microtubule attachments and chromosome segregation. The encoded protein functions as a scaffold for proteins that influence the spindle assembly checkpoint during the eukaryotic cell cycle and it interacts with at least five different kinetochore proteins and two checkpoint kinases. In adults, this gene is predominantly expressed in normal testes, various cancer cell lines and primary tumors from other tissues and is ubiquitously expressed in fetal tissues. This gene was originally identified as a fusion partner with the mixed-lineage leukemia (MLL) gene in t(11;15)(q23;q14). Mutations in this gene cause autosomal recessive primary microcephaly-4 (MCPH4). Alternative splicing results in multiple transcript variants encoding different isoforms. Additional splice variants have been described but their biological validity has not been confirmed.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 61.6 kDa; Accurate Molecular Mass: 62 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	CASC5 cancer susceptibility candidate 5 [Homo sapiens (human)]
Official Symbol	CASC5
Synonyms	CASC5; cancer susceptibility candidate 5; protein CASC5; AF15Q14; blinkin; bub linking kinetochore protein; cancer/testis antigen 29; CT29; D40; hKNL 1; hSpc105; kinetochore null 1 homolog (C. elegans); KNL1; PPP1R55; protein phosphatase 1; regulatory subunit 55; kinetochore null 1 homolog; kinetochore-null protein 1; bub-linking kinetochore protein; blinkin, bub-linking kinetochore protein; protein phosphatase 1, regulatory subunit 55; ALL1-fused gene from chromosome 15q14 protein; cancer susceptibility candidate gene 5 protein; hKNL-1; KIAA1570;
Gene ID	57082

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mRNA Refseq	NM_144508
Protein Refseq	NP_653091
MIM	609173
UniProt ID	Q8NG31

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