

Recombinant Human KNL1 Protein, GST-Tagged

Cat. No. KNL1-0410H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CASC5 partial ORF (NP_733468, 3 a.a. - 98 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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. [provided by RefSeq, Jan 2013]
Molecular Mass	36.3 kDa
AA Sequence	GVSSEANEENDNIERPVERRRHSSILKPPRSPLQDHRGGNERVQESNALRNKKNSRR VSFADTIKVFQTESHMKIVRKSEMEGCSAMVPSQLQLLPP

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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	KNL1 kinetochore scaffold 1 [Homo sapiens (human)]
Official Symbol	KNL1
Synonyms	KNL1; kinetochore scaffold 1; 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
mRNA Refseq	NM_144508
Protein Refseq	NP_653091
MIM	609173

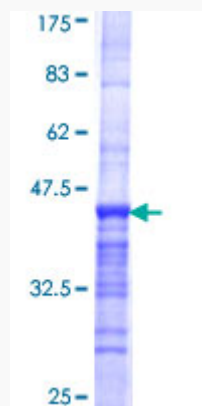
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UniProt ID

Q8NG31

Quality Control
Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

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