

Recombinant Human SEPTIN7 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. SEPTIN7-5481H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	SEPT7 MS Standard C13 and N15-labeled recombinant protein (NP_001779) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a protein that is highly similar to the CDC10 protein of <i>Saccharomyces cerevisiae</i> . The protein also shares similarity with Diff 6 of <i>Drosophila</i> and with H5 of mouse. Each of these similar proteins, including the yeast CDC10, contains a GTP-binding motif. The yeast CDC10 protein is a structural component of the 10 nm filament which lies inside the cytoplasmic membrane and is essential for cytokinesis. This human protein functions in gliomagenesis and in the suppression of glioma cell growth, and it is required for the association of centromere-associated protein E with the kinetochore. Alternative splicing results in multiple transcript variants. Several related pseudogenes have been identified on chromosomes 5, 7, 9, 10, 11, 14, 17 and 19.
Molecular Mass	48.7 kDa
AA Sequence	MAQQKNLEGYVGFANLPNQVYRKSVKRGFEFTLMVVGESGLGKSTLINSFLTDLY SPEYPGPSHRIKKTQVEQSKVLIKEGGVQLLLTIVDTPGFGDAVDNSNCWQPVIDYI DSKFEDYLNESRVNRRQMPDNRVQCCLYFIAPSGHGLKPLDIEFMKRLHEKVNIPL

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IAKADTLTPEECQQFKKQIMKEIQEHKIKIYEFPETDDEEENKLVKKIKDRLPLAVVGS
 NTIIEVNGKRVGRQYPWGVAEVENGEHCDFITLRNMLIRTHMQDLKDVNTNNVHYE
 NYRSRKLAADVTYNGVDNNKNKGQLTKSPLAQMEEEERREHVAKMKKMEMEMEQVF
 EMKVKEKVQKLKDSEALQRRHEQMKNLEAQHKELEEKRRQFEDEKANWEAQQ
 RILEQQNSSRTLEKNKKKGKIFTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name SEPTIN7 septin 7 [Homo sapiens (human)]

Official Symbol SEPTIN7

Synonyms SEPTIN7; septin 7; CDC3; CDC10; SEPT7; SEPT7A; NBLA02942; septin-7; CDC10 (cell division cycle 10, S. cerevisiae, homolog); CDC10 protein homolog; septin 7 variant 4

Gene ID 989

mRNA Refseq NM_001788

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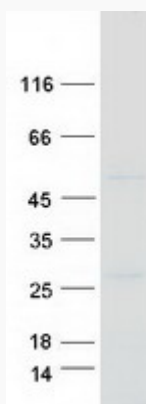
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Protein Refseq NP_001779

MIM 603151

UniProt ID Q16181

SDS-PAGE



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