

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

**Cat. No.** CASK-5048H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | CASK MS Standard C13 and N15-labeled recombinant protein (NP_003679) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | This gene encodes a calcium/calmodulin-dependent serine protein kinase. The encoded protein is a MAGUK (membrane-associated guanylate kinase) protein family member. These proteins are scaffold proteins and the encoded protein is located at synapses in the brain. Mutations in this gene are associated with FG syndrome 4, intellectual disability and microcephaly with pontine and cerebellar hypoplasia, and a form of X-linked intellectual disability. Multiple transcript variants encoding different isoforms have been found for this gene. |
| <b>Molecular Mass</b>   | 104.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>AA Sequence</b>      | MADDDVLFEDVYELCEVIGKGPFSVVRRCINRETGQQFAVKIVDVAKFTSSPGLSTE<br>DLKREASICHMLKHPHIVELLETTYSSDGMLYMVFEFMDGADLCFEIVKRADAGFVYS<br>EAVASHYMRQILEALRYCHDNNIIHRDVKPHCVLLASKENSAPVKLGFGVAIQLGES<br>GLVAGGRVGTPHFMAPEVVKREPYGKPVVDVWGCGVILFILLSGCLPFYGTKERLFE<br>GIIKGKYKMNPQRQWSHISESAKDLVRRMLMLDPAERITVYEALNHPWLKERDRYAYK<br>IHLPETVEQLRKFNARRKLKGAVLAAVSSHKFNSFYGDPPEELPDFSEDPTSSGLLA                                                                                                                                                                              |

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AERAVSQVLDSLEEIHALTDCSEKDLDLHVSFQDQHLHTLLDLYDKINTKSSPQIRN  
 PPSDAVQRAKEVLEEISCYPENNDAKELKRILTQPHFMALLQTHDVVAHEVYSDEAL  
 RVTPPPTSPYLNQDSPESANGDMDMENVTRVRLVQFQKNTDEPMGITLKMNELNH  
 CIVARIMHGGMIHRQGT LHVGEIREINGISVANQTVEQLQKMLREMRGSITFKIVPS  
 YRTQSSSCERDSPSTSRQSPANGHSSTNNSVSDLPSTTQPKGRQIYVRAQFEYDPA  
 KDDLIPCKEAGIRFRVGDIIQIISKDDHNWWQGKLENSKNGTAGLIPSELQEWVRVAC  
 IAMEKTKQEQQASCTWFGKKKKQYKDKYLAKHNAVFDQLDLVTYEEVVKLPFAFKRK  
 TLVLLGAHGVGRRHIKNTLITKHPDRFAYPIPHTRPPKKDEENGKNYYFVSHDQMM  
 QDISNNEYLEYGSHEDAMYGTKLETIRKIHEQGLIAILDVEPQALKVLRTAEFAPFVFI  
 AAPTITPGLNEDESLQRLQKESDILQRTYAHYFDLTIINNEIDETIRHLEEAVELVCTAP  
 QWVPVSWVYTRTRPLEQKLISEEDLAANDILDYKDDDDKV

|                       |                                                                                            |
|-----------------------|--------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 80% as determined by SDS-PAGE and Coomassie blue staining                                |
| <b>Stability</b>      | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| <b>Storage</b>        | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                |
| <b>Concentration</b>  | 50 µg/mL as determined by BCA                                                              |
| <b>Storage Buffer</b> | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                    |

## GENE INFORMATION

|                        |                                                                                                                                                             |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CASK calcium/calmodulin dependent serine protein kinase [ Homo sapiens (human) ]                                                                            |
| <b>Official Symbol</b> | CASK                                                                                                                                                        |
| <b>Synonyms</b>        | CASK; calcium/calmodulin-dependent serine protein kinase (MAGUK family); TNRC8, trinucleotide repeat containing 8; peripheral plasma membrane protein CASK; |

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CAGH39; FGS4; LIN2; hCASK; protein lin-2 homolog; trinucleotide repeat containing 8; calcium/calmodulin-dependent serine protein kinase membrane-associated guanylate kinase; CMG; TNRC8; CAMGUK; MICPCH; MRXSNA; FLJ22219; FLJ31914;

**Gene ID** 8573

**mRNA Refseq** NM\_003688

**Protein Refseq** NP\_003679

**MIM** 300172

**UniProt ID** O14936

**SDS-PAGE**



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