

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

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

SPECIFICATION

Product Overview	CASK MS Standard C13 and N15-labeled recombinant protein (NP_003679) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	104.3 kDa
AA Sequence	MADDDVLFEDVYELCEVIGKGPFSVVRRCINRETGQQFAVKIVDVAKFTSSPGLSTE DLKREASICHMLKHPHIVELLETTYSSDGMLYMVFEFMDGADLCFEIVKRADAGFVYS EAVASHYMRQILEALRYCHDNNIIHRDVKPHCVLLASKENSAPVKLGFGVAIQLGES GLVAGGRVGTPHFMAPEVVKREPYGKPDVWGC GVILFILLSGCLPFYGTKERLFE GIIKGKYKMNPQRQWSHISESAKDLVRRMLMLDPAERITVYEALNHPWLKERDRYAYK IHLPETVEQLRKFNARRKLKGAVLAAVSSHKFNSFYGDPPEELPDFSEDPTSSGLLA

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AERAVSQVLDSLEEIHALTDCSEKDLDLHVSFQDQHLHTLLDLYDKINTKSSPQIRN
 PPSDAVQRAKEVLEEISCYPENNDAKELKRILTQPHFMALLQTHDVVAHEVYSDEAL
 RVTPPPTSPYLNQDSPESANGDMDMENVTRVRLVQFQKNTDEPMGITLKMNELNH
 CIVARIMHGGMIHRQGT LHV GDEIREINGISVANQTVEQLQKMLREMRGSITFKIVPS
 YRTQSSSCERDSPSTSRQSPANGHSSTNNSVSDLPSTTQPKGRQIYVRAQFEYDPA
 KDDLIPCKEAGIRFRVGDIIQIISKDDHNWWQGKLENSKNGTAGLIPSELQEWVRVAC
 IAMEKTKQEQQASCTWFGKKKKQYKDKYLAKHNAVFDQLDLVTYEEVVKLPFAFKRK
 TLVLLGAHGVGRRHIKNTLITKHPDRFAYPIPHTRPPKKDEENGKNYYFVSHDQMM
 QDISNNEYLEYGSHEDAMYGTKLETIRKIHEQGILAILDVEPQALKVLR TAEFAPFVFI
 AAPTITPGLNEDESLQRLQKESDILQRTYAHYFDLTIINNEIDETIRHLEEAVELVCTAP
 QWVPVSWVYTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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	CASK calcium/calmodulin dependent serine protein kinase [Homo sapiens (human)]
Official Symbol	CASK
Synonyms	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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