

Product datasheet for TP320531

CASK (NM_003688) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human calcium/calmodulin-dependent serine protein kinase (MAGUK family) (CASK), transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC220531 representing NM_003688 Red=Cloning site Green=Tags(s)

MADDDVLFEDVYELCEVIGKGPFSVRRRCINRETGQQFAVKIVDVAKFTSSPGLSTEDLKREASICHMLK
HPHIVELLEYSDDGMLYMVFEFMDGADLCFEIVKRADAGFVYSEAVASHYMRQILEALRYCHDNNIIHR
DVKPHCVLLASKENSAPVKLGGFGVAIQLGESGLVAGGRVGTPHFMAPEVVKREPYGKPVVDWGCGLVILF
ILLSGCLPFYGTKERLFEGIIKGYKMNPRQWSHISESAKDLVRRMLMLDPAERITVYEALNHPWLKERD
RYAYKIHLPETVEQLRKFNARRKLGAVLAAVSSHKFNFSFYGDPPEELPDFSEDPTSSGLLAAERAVSQV
LDSLEEIHALTDCSEKDLDFLHSVFDQHLHTLLDLYDKINTKSSPQIRNPPSDAVQRAKEVLEEISCY
ENNDAKELKRILTQPHFMALLQTHDVAHEVYSDEALRVTPPTSPYLNQD SPESANGDMDMENVTRVRL
VQFQKNTDEPMGITLKMNELNHCIVARIMHGGMIHRQGTLLHVGDEIREINGISVANQTVEQLQKMLREMR
GSITFKIVPSYRTQSSCERDSPSTSRQSPANGHSSTNNSVSLPSTTQPKGRQIYVRAQFEYDPAKDDL
IPCKEAGIRFRVGDIIQIISKDDHNWWQKLENSKNGTAGLIPSELQEWVACIAMKTKQEQQASCTW
FGKKKKQYKDKYLAKHNAVFDQLDLVYEEVWKLPAFKRKTLLVLLGAHGVGRRHIKNTLITKHPDRFAYP
IPHTRPPKKDEENGKNYYFVSHDQMMQDISNNEYLEYGSHEDAMYGTKLETIRKIHEQGLIAILDVEPQ
ALKVLRTAEFAPFVVFIAAPTITPGLNEDESLQRLQKESDILQRTYAHYFDLTIINNEIDETIRHLEEAV
ELVCTAPQWVPVSWVY

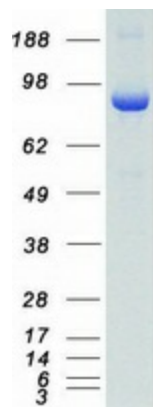
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	104.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_003679
Locus ID:	8573
UniProt ID:	O14936
RefSeq Size:	3122
Cytogenetics:	Xp11.4
RefSeq ORF:	2778
Synonyms:	CAGH39; CAMGUK; CMG; FGS4; hCASK; LIN2; MICPCH; MRXSNA; TNRC8
Summary:	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. [provided by RefSeq, Jul 2017]
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Tight junction

Product images:

Coomassie blue staining of purified CASK protein (Cat# TP320531). The protein was produced from HEK293T cells transfected with CASK cDNA clone (Cat# [RC220531]) using MegaTran 2.0 (Cat# [TT210002]).