

Active Recombinant Human CASK, GST-tagged

Cat. No. CASK-1375H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CASK (1-570) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	1-570 aa
Description	CASK is a calcium/calmodulin-dependent serine protein kinase which is a MAGUK (membrane-associated guanylate kinase) protein family member. CASK is a scaffold protein and the encoded protein is located at synapses in the brain. CASK associates with FG syndrome 4, mental retardation, microcephaly with pontine and cerebellar hypoplasia, and a form of X-linked mental retardation. CASK functions as a cytoskeletal membrane scaffold that coordinates signal transduction pathways within the cortical cytoskeleton.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	3 nmol/min/mg
Molecular Mass	~95 kDa
Purity	>95%

 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

Applications	Kinase Assay, Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1µg/µl
GENE INFORMATION	
Gene Name	CASK calcium/calmodulin-dependent serine protein kinase (MAGUK family) [Homo sapiens]
Official Symbol	CASK
Synonyms	CASK; calcium/calmodulin-dependent serine protein kinase (MAGUK family); TNRC8, trinucleotide repeat containing 8; peripheral plasma membrane protein CASK; 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_001126054
Protein Refseq	NP_001119526
MIM	300172
UniProt ID	O14936

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Chromosome Location	Xp11.4
Pathway	Cell-Cell communication, organism-specific biosystem; Nephrin interactions, organism-specific biosystem; Syndecan-1-mediated signaling events, organism-specific biosystem; Syndecan-2-mediated signaling events, organism-specific biosystem; Syndecan-3-mediated signaling events, organism-specific biosystem; Tight junction, organism-specific biosystem; Tight junction, conserved biosystem;
Function	ATP binding; calmodulin binding; guanylate kinase activity; nucleotide binding; protein binding; protein serine/threonine kinase activity;

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