

Product datasheet for TP323989L

Caldesmon (CALD1) (NM_033157) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Recombinant protein of human caldesmon 1 (CALD1), transcript variant 3, 1 mg
Species: Human
Expression Host: HEK293T
Expression cDNA Clone or AA Sequence: >RC223989 representing NM_033157
Red=Cloning site Green=Tags(s)

MDDFERRRELRRQKREEMRLEAERIAAYQRNDDDEEEAARERRRRARQERLRQKQEEESLGQVTDQVEVNA
 QNSVPDEEAKTTTTNTQVEGDDEAAFLERLARREERRQKRLQEALERQKEFDPTITDASLSLPSRRMQND
 TAENETTEKEEKSESQRERYEIEETETVTKSYQKNDWRDAEENKKEDKEKEEEEEKPKRGSIGENQGEE
 KGTKVQAKREKLQEDKPTFKKEEIKDEKIKKDKPEKEEVKSFMDRKKGFTEVKSQNGEFMTHKLKHTENT
 FSRPGGRASVDTKEAEGAPQVEAGKRLEELRRRRGETESEFEKQKQQAALALELLELKKKREERRKVL
 EEEEQRRKQEEADRKLREEEERRLKEEIERRRRAEAAEKRQKMPEDGLSDDKKPFKCFKPKGSSLKIEER
 AEFLNKSQKSSGVKSTHQAAIVSKIDSRLEQYTSIAIEGTKSAKPTKPAASDLVPAEGVRNIKSMWEKG
 NVFSSPTAAGTPNKETAGLKVGVSRRINWLTKTPDGNKSPAPKPSDLRPGDVSSKRNLWEKQSVDKVTS
 PTKV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

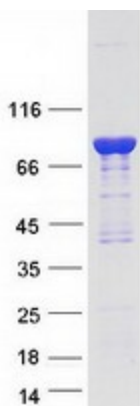
Tag: C-Myc/DDK
Predicted MW: 65.4 kDa
Concentration: >0.05 µg/µL as determined by microplate BCA method
Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation: Recombinant protein was captured through anti-DDK affinity 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.



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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_149347
Locus ID:	800
UniProt ID:	Q05682
RefSeq Size:	4546
Cytogenetics:	7q33
RefSeq ORF:	1692
Synonyms:	CDM; H-CAD; HCAD; L-CAD; LCAD; NAG22
Summary:	This gene encodes a calmodulin- and actin-binding protein that plays an essential role in the regulation of smooth muscle and nonmuscle contraction. The conserved domain of this protein possesses the binding activities to Ca(2+)-calmodulin, actin, tropomyosin, myosin, and phospholipids. This protein is a potent inhibitor of the actin-tropomyosin activated myosin MgATPase, and serves as a mediating factor for Ca(2+)-dependent inhibition of smooth muscle contraction. Alternative splicing of this gene results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2008]
Protein Pathways:	Vascular smooth muscle contraction

Product images:



Coomassie blue staining of purified CALD1 protein (Cat# [TP323989]). The protein was produced from HEK293T cells transfected with CALD1 cDNA clone (Cat# [RC223989]) using MegaTran 2.0 (Cat# [TT210002]).