

Datasheet for ABIN7552994

Caldesmon Protein (AA 1-793) (His tag)



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Overview

Quantity:	1 mg
Target:	Caldesmon (CALD1)
Protein Characteristics:	AA 1-793
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Caldesmon protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat CALD1 Protein expressed in mammalian cells.
Sequence:	<p>MDDFERRREL RRQKREEMRL EAERIAYQRN DDDEEEAARE RRRRARQERL RQKQEEESLG</p> <p>QVTDQVEVNA QNSVPDEEAK TTTTNTQVEG DDEAAFLERL ARREERRQKR LQEALERQKE</p> <p>FDPTITDASL SLPSRRMQND TAENETTEKE EKSESRQERY EIEETETVTK SYQKNDWRDA</p> <p>EENKKEDKEK EEEEEKPKR GSIGENQVEV MVEEKTESQ EETVMSLKN GQISSEEPKQ</p> <p>EEEREQGSDE ISHHEKMEEE DKERAAEERA RLEAEERERI KAEQDKKIAD ERARIEAEEK</p> <p>AAAQERERRE AEERERMREE EKRAAEERQR IKEEKRAAE ERQRIKEEEK RAAEERQRIK</p> <p>EEEKRAAEER QRARAEESK AKVEEQKRNK QLEEKHAMQ ETKIKGEKVE QKIEGKQVNE</p> <p>KKAQEDKLQT AVLKKQGEEK GTKVQAKREK LQEDKPTFKK EEIKDEKIKK DKEPKKEEVKS</p> <p>FMDRKKGFTE VKSQNGEFMT HKLKHTENTF SRPGGRASVD TKEAEGAPQV EAGKRLEELR</p> <p>RRRGETESEE FEKLKQKQE AALELEELKK KREERRKVLE EEEQRRKQEE ADRKLREEEE</p> <p>KRRLKEEIER RRAEAAEKRQ KMPEDGLSDD KKPFCFTPK GSSLKIEERA EFLNKSQVKS</p>

Product Details

SGVKSTHQAA IVSKIDSRLE QY TSAIEGTK SAKPTKPAAS DLPVPAEGVR NIKSMWEKGN
VFSSPTAAGT PNKETAGLKV GVSSRINEWL TKTPDGNKSP APKPSDLRPG DVSSKRNLWE
KQSVDKVTSP TKV **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

Caldesmon (CALD1)

Alternative Name:

CALD1 ([CALD1 Products](#))

Background:

Caldesmon (CDM),FUNCTION: Actin- and myosin-binding protein implicated in the regulation of actomyosin interactions in smooth muscle and nonmuscle cells (could act as a bridge between myosin and actin filaments). Stimulates actin binding of tropomyosin which increases the stabilization of actin filament structure. In muscle tissues, inhibits the actomyosin ATPase by binding to F-actin. This inhibition is attenuated by calcium-calmodulin and is potentiated by tropomyosin. Interacts with actin, myosin, two molecules of tropomyosin and with calmodulin. Also plays an essential role during cellular mitosis and receptor capping. Involved in Schwann cell migration during peripheral nerve regeneration (By similarity). {ECO:0000250,

Target Details

	ECO:0000269 PubMed:8227296}.
Molecular Weight:	93.2 kDa
UniProt:	Q05682
Pathways:	Myometrial Relaxation and Contraction

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months