

Datasheet for ABIN7553653
Dematin Protein (AA 1-405) (His tag)



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Overview

Quantity:	1 mg
Target:	Dematin (EPB49)
Protein Characteristics:	AA 1-405
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Dematin protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant DMTN Protein expressed in mammalian cells.
Sequence:	MERLQKQPLT SPGSVSPSRD SSVPGSPSSI VAKMDNQVLG YKDAAIPKD KAILDIERPD LMIYEPHFTY SLLHVELPR SRERSLSPKS TSPPPSPEVW ADSRSPGIIS QASAPRTTGT PRTSLPHFHH PETS RPDSNI YKKPPIYKQR ESVGGSPQTK HLIEDLIIES SKFPAAQPPD PNQPAKIETD YWPCPPSLAV VETEWKRKA SRRGAE EEEEE EEDDDSGEEM KALRERQREE LSKVTSNLGK MILKEEMEKSLPIRRKTRSL PDRTPFHTSL HQGTSKSSSL PAYGR TTLSR LQSTEFSPSG SETGSPGLQN GEGQRGRMDR GNSLPCVLEQ KIYPYEMLVV TNKGR TKLPP GVDRMRLERH LSAEDFSRVF AMSPEEFGKL ALWKRNELKK KASLF 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.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Product Details

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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade:

custom-made

Target Details

Target:

Dematin (EPB49)

Alternative Name:

DMTN ([EPB49 Products](#))

Background:

Dematin (Dematin actin-binding protein) (Erythrocyte membrane protein band 4.9),FUNCTION: Membrane-cytoskeleton-associated protein with F-actin-binding activity that induces F-actin bundles formation and stabilization. Its F-actin-bundling activity is reversibly regulated upon its phosphorylation by the cAMP-dependent protein kinase A (PKA). Binds to the erythrocyte membrane glucose transporter-1 SLC2A1/GLUT1, and hence stabilizes and attaches the spectrin-actin network to the erythrocytic plasma membrane. Plays a role in maintaining the functional integrity of PKA-activated erythrocyte shape and the membrane mechanical properties. Also plays a role as a modulator of actin dynamics in fibroblasts, acts as a negative regulator of the RhoA activation pathway. In platelets, functions as a regulator of internal calcium mobilization across the dense tubular system that affects platelet granule secretion pathways and aggregation. Also required for the formation of a diverse set of cell protrusions, such as filopodia and lamellipodia, necessary for platelet cell spreading, motility and migration. Acts as a tumor suppressor and inhibits malignant cell transformation.

Target Details

{ECO:0000269|PubMed:10565303, ECO:0000269|PubMed:11856323,
ECO:0000269|PubMed:18347014, ECO:0000269|PubMed:19241372,
ECO:0000269|PubMed:22927433, ECO:0000269|PubMed:23355471}.

Molecular Weight: 45.5 kDa

UniProt: [Q08495](#)

Pathways: [Regulation of Actin Filament Polymerization](#)

Application Details

Application Notes: We expect the protein to work for functional studies. 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