

Recombinant Human DMTN Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. DMTN-3793H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	EPB49 MS Standard C13 and N15-labeled recombinant protein (NP_001107607) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is an actin binding and bundling protein that plays a structural role in erythrocytes, by stabilizing and attaching the spectrin/actin cytoskeleton to the erythrocyte membrane in a phosphorylation-dependent manner. This protein contains a core domain in the N-terminus, and a headpiece domain in the C-terminus that binds F-actin. When purified from erythrocytes, this protein exists as a trimer composed of two 48 kDa polypeptides and a 52 kDa polypeptide. The different subunits arise from alternative splicing in the 3' coding region, where the headpiece domain is located. Disruption of this gene has been correlated with the autosomal dominant Marie Unna hereditary hypotrichosis disease, while loss of heterozygosity of this gene is thought to play a role in prostate cancer progression. Alternative splicing results in multiple transcript variants encoding different isoforms.
Molecular Mass	45.5 kDa
AA Sequence	MERLQKQPLTSPGSVSPSRDSSVPGSPSSIVAKMDNQVLGYKDLAAIPKDKAILDIER PDLMIYEPHFTYSLLEHVELPRSRERSLSPKSTSPPPSPEVWADSRSPGIISQASAPR

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TTGTPRTSLPHFHHPETSRPDSNIYKKPPIYKQRESVGGSPQTKHLIEDLIIESSKFPA
 AQPPDPNQPAKIETDYWPCPPSLAVVETEWKRKASRRGAEEEEEEEDDDSGEEM
 KALRERQREELSKVTSNLGKMILKEEMKSLPIRRKTRSLPDRTPFHTSLHQGTSKS
 SSLPAYGRITLSRLQSTEFSPSGSETGSPGLQNGEGQRGRMDRGNSLPCVLEQKIY
 PYEMLVVTNKGRTKLPPGVDRMLRLHLSAEDFSRVFAMSPEEFGKLALWKRNELK
 KKASLFTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name DMTN dematin actin binding protein [Homo sapiens (human)]

Official Symbol DMTN

Synonyms DMTN; dematin actin binding protein; DMT; EPB49; dematin; erythrocyte membrane protein band 4.9 (dematin)

Gene ID 2039

mRNA Refseq NM_001114135

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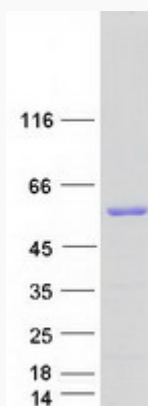
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Protein Refseq NP_001107607

MIM 125305

UniProt ID Q08495

SDS-PAGE



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