

Recombinant Full Length Human DMTN Protein, C-Flag-tagged

Cat. No. DMTN-1675HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human DMTN Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	45.3 kDa
AA Sequence	MERLQKQPLTSPGSVSPSRDSSVPGSPSSIVAKMDNQVLGYKDLAAIPKDKAILDIER PDLMIYEPHFTY SLLEHVELPRSRERSLSPKSTSPPPSPEWADSRSPGIISQASAP

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RTTGTPRTSLPHFHHPETSRPDSNI YKKPPIYKQRESVGGSPQTKHLIEDLIISSKF
PAAQPPDPNQPAKIETDYWPCPPSLAVVETEWRRKA SRRGAEEDDDSGE
EMKALRERQREELSKVTSNLGKMILKEEMEKSLPIRRKTRSLPDRTPFHTSL HQGTS
KSSSLPAYGRITLSRLQSTEFSPSGSETGSPGLQNGEGQRGRMDRGNSLPCVLEQ
KIYPYEMLVV
TNKGRTKLPPGVDRMLERHLSAEDFSRVFAMSPEEFGKLALWKRNELKKKASLFT
RTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Full Length	Full L.

GENE INFORMATION

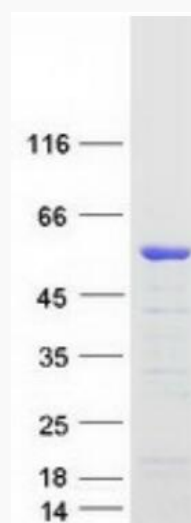
Gene Name	DMTN dematin actin binding protein [Homo sapiens (human)]
Official Symbol	DMTN
Synonyms	DMT; EPB49
Gene ID	2039

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mRNA Refseq	NM_001978.5
Protein Refseq	NP_001969.2
MIM	125305
UniProt ID	Q08495



Coomassie blue staining of purified DMTN protein.