Recombinant Human DMTN Protein, DDK-tagged

Cat. No. DMTN-2206H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human DMTN protein, fused to DDK-tagged at C-terminus, was expressed in Insect cells
Species	Human
Source	Insect 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. [provided by RefSeq, Nov 2014]
Form	50 mM Tris-HCl, pH 8.0, 100 mM glycine, 10% glycerol
Molecular Mass	45.3 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Concentration	>50 ug/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name	DMTN dematin actin binding protein [Homo sapiens]
Official Symbol	DMTN
Synonyms	DMT; EPB49
Gene ID	2039
mRNA Refseq	NM_001114135.4
Protein Refseq	NP_001107607
MIM	125305

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