

## Product datasheet for PH325631

### Dematin (DMTN) (NM\_001114136) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	EPB49 MS Standard C13 and N15-labeled recombinant protein (NP_001107608)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC225631
Predicted MW:	45.5 kDa
Protein Sequence:	>RC225631 protein sequence Red=Cloning site Green=Tags(s)
	MERLQKQPLTSPGVSVPDRDSSVPGSPSSIVAKMDNQVLGYKDLAAIPKDKAILDIERPDLMIYEPHFTY SLLLEHVELPRSRERSLSPKSTSPPPSPEVWADSRSPGIIISQASAPRTTGTPTSLPHFHPETSRPDSNI YKKPPIYKQRESVGGSPQTKHLIEDLIIESSKFPAAPDPNPQAKIETDYWPCPPSLAVVETEWKRKA SRRGAEEDDDSGEEMKALRERQREELSKVTSNLGKMILKEEMKSLPIRRKTRSLPDRTPFHTSL HQGTSKSSSLPAYGRITLSRLQSTEFSPSGSETGSPGLQNGEGQRGRMDRGNLPCVLEQKIYPYEMLVV TNKGRTKLPPGVDRMLERHLSAEDFSRVFAMSPPEFGKLALWKRNELKKKASLF
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u><a href="#">NP_001107608</a></u>
RefSeq Size:	2561
RefSeq ORF:	1215
Synonyms:	DMT; EPB49
Locus ID:	2039



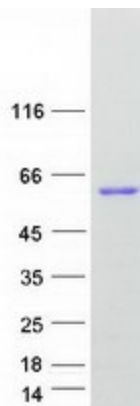
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UniProt ID: [Q08495](#)

Cytogenetics: 8p21.3

**Summary:** 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]

### Product images:



Coomassie blue staining of purified DMTN protein (Cat# [TP325631]). The protein was produced from HEK293T cells transfected with DMTN cDNA clone (Cat# [RC225631]) using MegaTran 2.0 (Cat# [TT210002]).