

## Product datasheet for TP302895

### Dematin (DMTN) (NM\_001978) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human erythrocyte membrane protein band 4.9 (dematin) (EPB49), transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC202895 protein sequence Red=Cloning site Green=Tags(s)

MERLQKQPLTSPGSVSPSRDSSVPGSPSSIVAKMDNQVLGYKDAAIPKDKAILDIERPDLMIYEPHFTY  
SLLHVELPRSRERSLSPKSTSPPPSPEVWADSRSPGIISQASAPRTTGTPRTSLPHFHHHPETSRPDSNI  
YKKPPIYKQRESVGGSPQTKHLIEDLIISSKFPAQPPDPNQPAKIETDYWPCCPSLAWVETEWKRKA  
SRRGAEEDDDSGEEMKALRERQRELSKVTSNLGKMILKEEMEKSPIRRKTRSLPDRTPFHTSL  
HQGTSKSSSLPAYGRITLSRLQSTEFSPSGSETGSPGLQNGEGQRGRMDRGNLPCVLEQKIYPYEMLV  
TNKGRITLPPGVDRMLRHLAEDFSRVFAMSPPEFGKLALWKRNELKKKASLF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	45.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_001969</a>

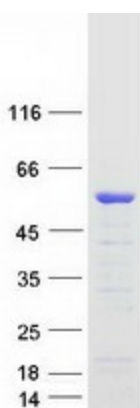


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Locus ID:	2039
UniProt ID:	<a href="#">Q08495</a>
RefSeq Size:	2825
Cytogenetics:	8p21.3
RefSeq ORF:	1215
Synonyms:	DMT; EPB49

**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# TP302895). The protein was produced from HEK293T cells transfected with DMTN cDNA clone (Cat# [RC202895]) using MegaTran 2.0 (Cat# [TT210002]).