

Product datasheet for TP505979

Dmtn (NM_013514) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse dematin actin binding protein (Dmtn), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR205979 protein sequence Red =Cloning site Green =Tags(s)

MERLQKQPLTSPGVSSSSRDSSVPGSPSSIVAKMDNQVLGYKDAAIPKDKAILDIERPDLMIYEPHFTY
 SLLEHVELPRSRECSLSPKSTSPPPSPEVWAESRTLGIISQASTPRTTGTPTSLPHFHHPETTRPDSNI
 YKKPPIYKQRESVGGSPQSKHLIEDLIISSKFPAAPDPNQPAKIETDYWPCCPSLAVVETEWKRKA
 SRKGAEEDDDSEEEIKAIRERQKEELSKVTSNLGKMILKEEMEKSLPIRRKTRSLPDRTPFHTSL
 HSGTSKSSSLPSYGRTTSLRLQSTEFSPSGSEAGSPGLQIYPYEMLVVTKGRTKLPPGVDRMLRHLHS
 AEDFSRVFAMSPEEFGKLALWKRNELKKKASLF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	43 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
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 after receiving vials.
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:	NP_038542
Locus ID:	13829
UniProt ID:	Q9WV69



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RefSeq Size:	4129
Cytogenetics:	14 36.32 cM
RefSeq ORF:	1152
Synonyms:	AI325486; dematin; Epb4.9; Epb49
Summary:	<p>Membrane-cytoskeleton-associated protein with F-actin-binding activity that induces F-actin bundles formation and stabilization. Its F-actin-bundling activity is reversibly regulated upon its phosphorylation by the cAMP-dependent protein kinase A (PKA). Binds to the erythrocyte membrane glucose transporter-1 SLC2A1/GLUT1, and hence stabilizes and attaches the spectrin-actin network to the erythrocytic plasma membrane. Plays a role in maintaining the functional integrity of PKA-activated erythrocyte shape and the membrane mechanical properties. Plays also a role as a modulator of actin dynamics in fibroblasts; acts as negative regulator of the RhoA activation pathway. In platelets, functions as a regulator of internal calcium mobilization across the dense tubular system that affects platelet granule secretion pathways and aggregation. Also required for the formation of a diverse set of cell protrusions, such as filopodia and lamellipodia, necessary for platelet cell spreading, motility and migration. Acts as a tumor suppressor and inhibits malignant cell transformation.</p> <p>[UniProtKB/Swiss-Prot Function]</p>