

Product datasheet for TP510849

Vil1 (NM_009509) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse villin 1 (Vil1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA	>MR210849 protein sequence
Clone or AA Sequence:	Red=Cloning site Green=Tags(s)

MTKLNAQVKGSLNITTPGIQIWRIEAMQMVPVPSSTFGSFFDGDGCYWLAIHKTSSTLSYDIHWIGQDS
SQDEQGAAAIYTTQMDDYLKGRAVQHREVQGNESETFRSYFKQGLVIRKGGVASGMKHVETNSCDVQRL
HVKGKRNVLAGEVEMSWKSFNRGDVFLDLGKLIQWNGPESNRMERLRGMALAKEIRDQERGGRTYVGV
VDGEKEGDSPLMAIMNHVLGPRKELKAAISDSVPEAAKAALKLYHVSDSEGKLVREVATRPLTQDLL
KHEDCYILDQGGKIFVWKGKNANAQERSGAMSQALNFIKAKQYPPSTQVEVQNDGAESPIFQQLFQKWT
VPNRTSGLGKHTTVGSVAKVEQVKFDALTMHVQPQVAAQKMVDDGSGEVQVWRIEDLELVPVESKWLGH
FYGGDCYLLLYTYLIGEKQHLYLWQGSQASQDEIAASAYQAVLLDQKYNDEPVQIRVTMGKEPPHMS
IFKGRMVVYQGGTSRKNNLEPVPSTRLFQVRGTNADNTKAFEVTARATSLNSNDVFIKTPSCCYLWCGK
GCSGDEREMAKMVADTISRTEKQVVEGQEPANFWMALGGKAPYANTKRLQEENQVITPRLFECSNQTGR
FLATEIFDFNQDDLEEEDVFLLDVWDQVFFWIGKHANEEEEKAAATTVQEYLKTHPGNRDLETPPIIVKQ
GHEPPTFTGWFLAWDPFKWSNTKSYDDLKAE LGNSGDWSQIADVMSPKVDVFTANTSLSGGPLPTFPLE
QLVNKSVEDLPEGVDPSRKEEHLSTEDFTRALGMTPAAFSALPRWKQQNIIKKEKGLF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	92.8 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.



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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_033535
Locus ID:	22349
UniProt ID:	Q62468 , Q8CEJ4
RefSeq Size:	3117
Cytogenetics:	1 38.54 cM
RefSeq ORF:	2484
Synonyms:	Vil
Summary:	Epithelial cell-specific Ca(2+)-regulated actin-modifying protein that modulates the reorganization of microvillar actin filaments. Plays a role in the actin nucleation, actin filament bundle assembly, actin filament capping and severing. Binds phosphatidylinositol 4,5-bisphosphate (PIP2) and lysophosphatidic acid (LPA); binds LPA with higher affinity than PIP2. Binding to LPA increases its phosphorylation by SRC and inhibits all actin-modifying activities. Binding to PIP2 inhibits actin-capping and -severing activities but enhances actin-bundling activity. Regulates the intestinal epithelial cell morphology, cell invasion, cell migration and apoptosis. Protects against apoptosis induced by dextran sodium sulfate (DSS) in the gastrointestinal epithelium. Appears to regulate cell death by maintaining mitochondrial integrity. Enhances hepatocyte growth factor (HGF)-induced epithelial cell motility, chemotaxis and wound repair. Upon <i>S.flexneri</i> cell infection, its actin-severing activity enhances actin-based motility of the bacteria and plays a role during the dissemination.[UniProtKB/Swiss-Prot Function]