

Product datasheet for TP516001

Emp2 (NM_007929) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse epithelial membrane protein 2 (Emp2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR216001 representing NM_007929 Red=Cloning site Green=Tags(s)
	MLVILAFIIVFHIVSTALLFISTIDNAWWWGDSFSADLWRVCTNSTNCTEINELTGPEAFEGYSVMQAVQ ATMILSTILSCISFLIFLLQLFRLKQGERFVLTSIIQLMSCLCVMIGASIYTDRRQDLHQQRKLYLLQ EGSYGYFILAWVAFAFTFISGLMYMILRKRK
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	20.2 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:	<u>NP_031955</u>
Locus ID:	13731
UniProt ID:	<u>O88662</u> , <u>Q548I4</u> , <u>Q8BPC2</u>
RefSeq Size:	3440
Cytogenetics:	16 5.54 cM



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RefSeq ORF: 516

Synonyms: XMP

Summary: Functions as a key regulator of cell membrane composition by regulating proteins surface expression. Also, plays a role in regulation of processes including cell migration, cell proliferation, cell contraction and cell adhesion. Negatively regulates caveolae formation by reducing CAV1 expression and CAV1 amount by increasing lysosomal degradation (PubMed:17609206, PubMed:14978215). Facilitates surface trafficking and the formation of lipid rafts bearing GPI-anchor proteins (PubMed:14978215). Regulates surface expression of MHC1 and ICAM1 proteins increasing susceptibility to T-cell mediated cytotoxicity (PubMed:12763482). Regulates the plasma membrane expression of the integrin heterodimers ITGA6-ITGB1, ITGA5-ITGB3 and ITGA5-ITGB1 resulting in modulation of cell-matrix adhesion (PubMed:12189152). Also regulates many processes through PTK2. Regulates blood vessel endothelial cell migration and angiogenesis by regulating VEGF protein expression through PTK2 activation (By similarity). Regulates cell migration and cell contraction through PTK2 and SRC activation (By similarity). Regulates focal adhesion density, F-actin conformation and cell adhesion capacity through interaction with PTK2 (By similarity). Positively regulates cell proliferation (By similarity). Plays a role during cell death and cell blebbing (By similarity). Promotes angiogenesis and vasculogenesis through induction of VEGFA via a HIF1A-dependent pathway (By similarity). Also plays a role in embryo implantation by regulating surface trafficking of integrin heterodimer ITGA5-ITGB3 (PubMed:16487956, PubMed:16216233). May play a role in glomerular filtration (By similarity). [UniProtKB/Swiss-Prot Function]