

Recombinant Mouse Emp2 Protein, Myc/DDK-tagged

Cat. No. Emp2-2816M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length epithelial membrane protein 2 (Emp2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	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. Facilitates surface trafficking and the formation of lipid rafts bearing GPI-anchor proteins. Regulates surface expression of MHC1 and ICAM1 proteins increasing susceptibility to T-cell mediated cytotoxicity. Regulates the plasma membrane expression of the integrin heterodimers ITGA6-ITGB1, ITGA5-ITGB3 and ITGA5-ITGB1 resulting in modulation of cell-matrix adhesion. Also regulates many processes through PTK2. Regulates blood vessel endothelial cell migration and angiogenesis by regulating VEGF protein expression through PTK2 activation. Regulates cell migration and cell contraction through PTK2 and SRC activation. Regulates focal adhesion density, F-actin conformation and cell adhesion capacity through interaction with PTK2. Positively regulates cell proliferation. Plays a role during cell death and cell blebbing. Promotes angiogenesis and vasculogenesis through induction of VEGFA via a HIF1A-dependent pathway. Also plays a role in embryo implantation by regulating surface trafficking of integrin heterodimer ITGA5-

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ITGB3. May play a role in glomerular filtration.

Molecular Mass	20.2 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Emp2 epithelial membrane protein 2 [Mus musculus (house mouse)]
Official Symbol	Emp2
Synonyms	EMP2; epithelial membrane protein 2; EMP-2; XMP
Gene ID	13731
mRNA Refseq	NM_007929
Protein Refseq	NP_031955
UniProt ID	O88662

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