Epiplakin (EPPK1) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Epiplakin (Eppk1), Recombinant Protein
Full Product Name	Recombinant Mouse Epiplakin (Eppk1) , partial
Product Gene Name	Eppk1 recombinant protein
Product Synonym Gene Name	Eppk1
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	724,646 Da
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q8R0W0
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Eppk1 recombinant protein	MBS1423175 is a recombinant protein targeting Eppk1. Also known as Recombinant Mouse Epiplakin (Eppk1) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Eppk1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Eppk1. It may not necessarily be applicable to this product.

NCBI GI #	37537522
NCBI GeneID	223650
NCBI Accession #	NP_659097.2
UniProt Primary Accession #	Q8R0W0
UniProt Related Accession #	Q8R0W0
GenBank Nucleotide #	NM_144848.2
NCBI Official Full Name	epiplakin
NCBI Official Synonym Full Names	epiplakin 1
NCBI Official Symbol	Eppk1

NCBI Official Synonym Symbols	EPPK; EPIPL; EPIPL1; 6230424I18Rik
UniProt Protein Name	Epiplakin
Protein Family	Epiplakin
UniProt Gene Name	Eppk1
NCBI Protein Information	epiplakin
UniProt Comments for Eppk1	Cytoskeletal linker protein that connects to intermediate filaments and controls their reorganization in response to stress (PubMed:16382146, PubMed:20926261, PubMed:18285451, PubMed:25232867, PubMed:25617501, PubMed:23599337). In response to mechanical stress like wound healing, is associated with the machinery for cellular motility by slowing down keratinocyte migration and proliferation and accelerating keratin bundling in proliferating keratinocytes thus contributing to tissue architecture (PubMed:16382146, PubMed:20926261). However in wound healing in corneal epithelium also positively regulates cell differentiation and proliferation and negatively regulates migration thereby controlling corneal epithelium morphogenesis and integrity (PubMed:23599337). In response to cellular stress, plays a role in keratin filament reorganization, probably by protecting keratin filaments against disruption (PubMed:18285451). During liver and pancreas injuries, plays a protective role by chaperoning disease-induced intermediate filament reorganization (PubMed:25232867, PubMed:25617501).
Research Articles on Eppk1	**1.** Epiplakin is a protective protein during acute pancreatitis, and that its loss causes impaired disease-associated keratin reorganization.
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