WASH Complex Subunit FAM21C (FAM21C) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	WASH complex subunit FAM21C (FAM21C), Recombinant Protein
Full Product Name	Recombinant Human WASH complex subunit FAM21C (FAM21C) , partial
Product Gene Name	FAM21C recombinant protein
Product Synonym Gene Name	FAM21C
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	140,144 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.
OMIM	613631
3D Structure	ModBase 3D Structure for Q9Y4E1
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for FAM21C recombinant protein	MBS1330745 is a recombinant protein targeting FAM21C. Also known as Recombinant Human WASH complex subunit FAM21C (FAM21C) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of FAM21C 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 FAM21C. It may not necessarily be applicable to this product.

NCBI GI #	281182694
NCBI GeneID	253725
NCBI Accession #	NP_001162577.1
UniProt Primary Accession #	Q9Y4E1
UniProt Secondary Accession #	Q5SQU4; Q5SQU5; Q7L521; Q9UG79; B4DZQ6; B9EK53; F5H0J6; F5H871
UniProt Related Accession #	Q9Y4E1
GenBank Nucleotide #	NM_001169106.1

NCBI Official Full Name	WASH complex subunit 2C isoform 2
NCBI Official Synonym Full Names	WASH complex subunit 2C
NCBI Official Symbol	WASHC2C
NCBI Official Synonym Symbols	VPEF; FAM21A; FAM21C
UniProt Protein Name	WASH complex subunit 2C
UniProt Synonym Protein Names	Vaccinia virus penetration factor; VPEF
Protein Family	WASH complex
UniProt Gene Name	WASHC2C
UniProt Synonym Gene Names	VPEF
NCBI Protein Information	WASH complex subunit 2C; WASH complex subunit FAM21C
UniProt Comments for FAM21C	Acts at least in part as component of the WASH core complex whose assembly at the surface of endosomes inhibits WASH nucleation-promoting factor (NPF) activity in recruiting and activating the Arp2/3 complex to induce actin polymerization and is involved in the fission of tubules that serve as transport intermediates during endosome sorting. Mediates the recruitment of the WASH core complex to endosome membranes via binding to phospholipids and VPS35 of the retromer CSC. Mediates the recruitment of the F-actin-capping protein dimer to the WASH core complex probably promoting localized F-actin polymerization needed for vesicle scission (PubMed:19922874, PubMed:20498093, PubMed:22513087, PubMed:23331060). Via its C-terminus binds various phospholipids, most strongly phosphatidylinositol 4-phosphate (PtdIns-4P), phosphatidylinositol 5-phosphate (PtdIns-5P) and phosphatidylinositol 3,5-bisphosphate (PtdIns-(3,5)P2). Involved in the endosome-to-plasma membrane trafficking and recycling of SNX27-retromer-dependent cargo proteins, such as GLUT1 (PubMed:25278552). Required for the association of DNAJC13, SDCCAG3, ANKRD50 with retromer CSC subunit VPS35 (PubMed:24980502). Required for the endosomal recruitment of CCC complex subunits COMMD1, CCDC93 AND C16orf62 (PubMed:25355947). Plays a role in fluid-phase endocytosis, a process exploited by vaccinia intracellular mature virus (IMV) to enter cells. As a result, may facilitate the penetration of IMV into cells (PubMed:18550675).
Research Articles on FAM21C	**1.** FAM21 not only functions as an integral component of the cytoplasmic WASH complex, but also modulates NF-kappaB gene transcription in the nucleus.
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