

Product datasheet for TP330681

FAM21C (WASHC2C) (NM_001169107) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Homo sapiens family with sequence similarity 21, member C (FAM21C), transcript variant 3, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC230681 representing NM_001169107 Red=Cloning site Green=Tags(s)

MMNRTTPDQELVPASEPVWERPWSVEEIRRSSQSWSLAADAGLLQFLQEFSSQQTISRTHEIKKQVDGLIR
ETKATDCRLHNVFNDFLMLSNTQFIENRVYDEEVEEVLKAEAEKTEQEKTREQKEVDLIPKVQEAENVY
LQVLDSAFEQLDIKAGNSDSEEDDANGRVELILEPKDLYDRPLPYLIGSKLFMEQEDVGLGELSSEEGS
VGSDRGSIVDTEEEKEEEDDFAHHSNEQNTHTTQMSDEEEDDGGCDLFADSEKEEEDIEDIEENTR
PKRSRPTFADELAARIKGDAMGRVDEEPTNEEDNLFAPPKLTDEDFSPFGSGGLFSGGKGLFDDEDEE
SDLFTEASQDRQAGASVKEESSSSKPGKKIPAGAVSVFLGDTDFVGAASVPSLKEPQKPEQPTPRKSPYG
PPPTGLFDDDDGDDDDFFSAPHSKPSKTRKVQSTADIFGDEEGDLFKEKAVASPEATVSQTDENKARAE
KKVTLSSYKLNKPSSETKTQKGLFSDEEEDSEDLFSSQSASNLKGASLLPGKLPVSVLFDDEDEEDNLF
GTAACKQTLSLQAQREEKAKASELSKKKASALLFSSDEEDQWNIPASQTHLASDSRSGEPRDSGTLQSQ
EAKAVKKTSLFEEDKEDDLFAIAKDSQKKTQRVSLLFEDDVSGLSGLFSPPTSVPPATKEGLLTRSAQ
TVKHSDLFSSSSPWDKGTKPRTKTVLSLFDEEEDKMEDQNIQAPQKEVKGKCDPAHPKSTGVFQDEEL
LFSHKLQKDNPDVDFLAGTKTKLLEPSVGLSGLFDEEDDLFSSAKSQPLVQEKKRVVKKDHSVNSFKN
QKHPESIQGSKEKGIWKPETPQANLAINPAALLPTAASQISEVKPVLPELAFPSSEHRRSHGLESVPVLP
GSGEAGVSFDLPAQADTLHSANKSRVKMRGKRRPQTRAARRLAAQESSEAEEDMSVPRGPIAQWADGAISP
NGHRPQLRAASGEDSTEEALAAAAAPWEGGPVPGVDTSPFAKSLGHSRGEADLFDSGDIFSTGTGSQSVE
RTKPKAKIAENPANPPVGGKAKSPMFPALGEASSDDDLFQSAKPKPAKKTNPFLLEDEDDLFTDQKVKK
NETKSSSQDVLTTQDIFEDDIFATEAIKPSQKTREKEKTLESNLFDDNIDIFADLTVKPKKESKSKKVE
AKSIFDDDDMDDIFSTGIQAKTTKPKSRSAAQAAPEPRFEHKVSNIFDDPLNAFGGQ

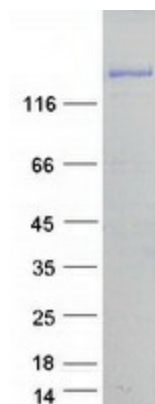
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	137
Concentration:	>0.05 µg/µL as determined by microplate BCA method



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Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	NULL or Add: Recombinant proteins was captured through anti-DDK affinity column followed by conventional chromatography steps.
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.
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_001162578
Locus ID:	253725
UniProt ID:	Q9Y4E1 , B3KMC4
Cytogenetics:	10q11.22
RefSeq ORF:	3735
Synonyms:	FAM21A; FAM21C; VPEF
Summary:	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-(4)P), phosphatidylinositol 5-phosphate (PtdIns-(5)P) 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, ENTR1, ANKRD50 with retromer CSC subunit VPS35 (PubMed:24980502). Required for the endosomal recruitment of CCC and retriever complexes subunits COMMD1 and CCDC93 as well as the retrievere complex subunit VPS35L (PubMed:25355947, PubMed:28892079).[UniProtKB/Swiss-Prot Function]

Product images:

Coomassie blue staining of purified WASHC2C protein (Cat# TP330681). The protein was produced from HEK293T cells transfected with WASHC2C cDNA clone (Cat# [RC230681]) using MegaTran 2.0 (Cat# [TT210002]).