

FAM21C Rabbit pAb

Catalog # AP97683

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9Y4E1
Other Accession	Q9Y4E1
Reactivity	Rat
Predicted	Pig, Human, Mouse, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Calculated MW	147154
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FAM21C
Epitope Specificity	1201-1318/1318
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the FAM21 family.
SUBUNIT	Component of the WASH complex, composed of F-actin-capping protein subunit alpha (CAPZA1, CAPZA2 or CAPZA3), F-actin-capping protein subunit beta (CAPZB), WASH (WASH1, WASH2P, WASH3P, WASH4P, WASH5P or WASH6P), FAM21 (FAM21A, FAM21B or FAM21C), KIAA1033, KIAA0196 and CCDC53. Interacts (via N-terminus) with WASH1; the interaction is direct.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Component of the WASH complex, a complex present at the surface of endosomes that recruits and activates the Arp2/3 complex to induce actin polymerization. The WASH complex plays a key role in the fission of tubules that serve as transport intermediates during endosome sorting. In the complex, it probably mediates the recruitment of the complex to endosome membranes. 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.

Additional Information

Gene ID	253725
Other Names	FAM21A; FAM21C; VPEF; WAC2C_HUMAN; WASHC2C; Vaccinia virus penetration factor (VPEF); KIAA0592; WASH complex subunit 2C; family with sequence similarity 21 member C; Vaccinia Penetration Factor
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

Protein Information

Name	WASHC2C (HGNC:23414)
Function	Acts as a component of the WASH core complex that functions as a nucleation-promoting factor (NPF) at the surface of endosomes, where it recruits and activates the Arp2/3 complex to induce actin polymerization, playing a key role 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 retriever complex subunit VPS35L (PubMed:25355947, PubMed:28892079).
Cellular Location	Early endosome membrane. Cell membrane. Note=Partially colocalizes with RAB11A, a recycling endosome marker. Associates with lipid raft microdomains on the plasma membrane

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