



## Rabbit Anti-FAM21C antibody

SL8214R

|                               |   |
|-------------------------------|---|
| <b>Product Name:</b>          | FAM21C  |
| <b>Chinese Name:</b>          | FAM21C蛋白抗体  |
| <b>Alias:</b>                 | FAM21A; Family with sequence similarity 21 member C; Hypothetical protein LOC253725; KIAA0592; Protein FAM21C; FA21C HUMAN.   |
| <b>Organism Species:</b>      | Rabbit  |
| <b>Clonality:</b>             | Polyclonal  |
| <b>React Species:</b>         | Human,Mouse,Rat,Chicken,Pig,Cow,Rabbit,   |
| <b>Applications:</b>          | ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair)<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user.   |
| <b>Molecular weight:</b>      | 115kDa  |
| <b>Cellular localization:</b> | cytoplasmicThe cell membrane  |
| <b>Form:</b>                  | Lyophilized or Liquid   |
| <b>Concentration:</b>         | 1mg/ml  |
| <b>immunogen:</b>             | KLH conjugated synthetic peptide derived from human FAM21C:1201-1318/1318   |
| <b>Lsotype:</b>               | IgG   |
| <b>Purification:</b>          | affinity purified by Protein A  |
| <b>Storage Buffer:</b>        | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.  |
| <b>Storage:</b>               | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.   |
| <b>PubMed:</b>                | <a href="#">PubMed</a>  |
| <b>Product Detail:</b>        | Playing a essential role in the fission of tubules that serve as transport intermediates during endosome sorting, the WASH complex is present at the surface of endosomes and functions to recruit and activate the Arp2/3 complex for induction of actin polymerization. FAM21, Putative WASH complex subunit FAM21, is a component of the WASH complex. Having undergone evolutionary duplication, four highly homologous family members exist including FAM21A, FAM21B, FAM21C and |

FAM21D. FAM21 links the WASH complex to endosomes and is required for WASM-dependent retromer-mediated sorting. Also, by directly interacting with CapZ, FAM21 inhibits its anti-capping activity, thereby regulating actin dynamics.

**Function:**

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.

**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.

**Subcellular Location:**

Early endosome membrane. Cell membrane.

**Similarity:**

Belongs to the FAM21 family.

**SWISS:**

Q9Y4E1

**Gene ID:**

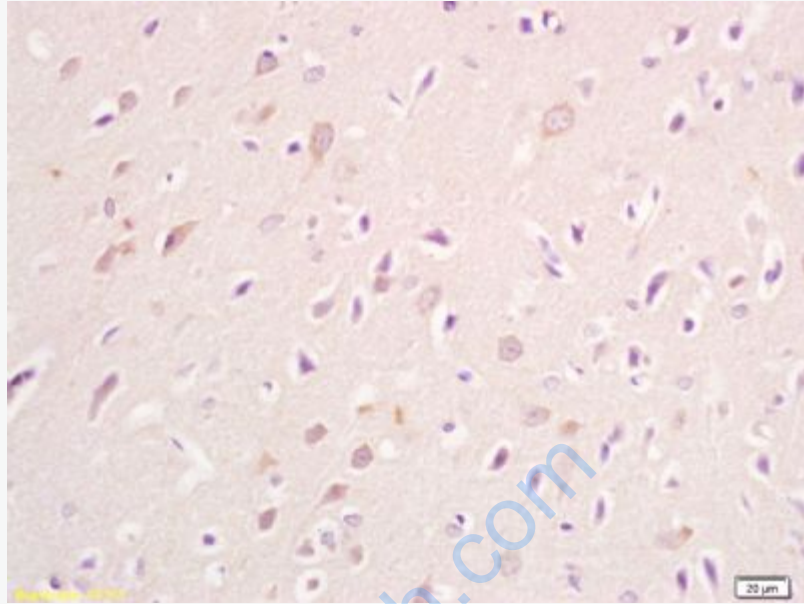
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**Database links:**

UniProtKB/Swiss-Prot: Q9Y4E1.3

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



**Picture:**

Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;  
Incubation: Anti-FAM21C Polyclonal Antibody, Unconjugated(SL8214R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining