

# FCHO2 Antibody

Catalog # ASC11488

## Product Information

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| <b>Application</b>           | WB, IF, E, IHC-P                                                                                                                                                                                                      |
| <b>Primary Accession</b>     | <a href="#">Q0JRZ9</a>                                                                                                                                                                                                |
| <b>Other Accession</b>       | <a href="#">NP_620137</a> , <a href="#">226371723</a>                                                                                                                                                                 |
| <b>Reactivity</b>            | Human, Mouse, Rat                                                                                                                                                                                                     |
| <b>Host</b>                  | Rabbit                                                                                                                                                                                                                |
| <b>Clonality</b>             | Polyclonal                                                                                                                                                                                                            |
| <b>Isotype</b>               | IgG                                                                                                                                                                                                                   |
| <b>Calculated MW</b>         | 88924                                                                                                                                                                                                                 |
| <b>Concentration (mg/ml)</b> | 1 mg/mL                                                                                                                                                                                                               |
| <b>Conjugate</b>             | Unconjugated                                                                                                                                                                                                          |
| <b>Application Notes</b>     | FCHO2 antibody can be used for detection of FCHO2 by Western blot at 1 - 2 $\mu$ g/mL. Antibody can also be used for immunohistochemistry starting at 2.5 $\mu$ g/mL. For immunofluorescence start at 2.5 $\mu$ g/mL. |

## Additional Information

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| <b>Gene ID</b>                      | 115548                                                                                                                                                                                                                                        |
| <b>Other Names</b>                  | FCH domain only protein 2, FCHO2                                                                                                                                                                                                              |
| <b>Target/Specificity</b>           | FCHO2; FCHO2 antibody is predicted to not cross-react with other FCHO protein family members. At least the isoforms of FCHO2 are known to exist; this antibody will detect only the two longest isoforms.                                     |
| <b>Reconstitution &amp; Storage</b> | FCHO2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures. |
| <b>Precautions</b>                  | FCHO2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.                                                                                                                                              |

## Protein Information

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| <b>Name</b>     | FCHO2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Function</b> | Functions in an early step of clathrin-mediated endocytosis. Has both a membrane binding/bending activity and the ability to recruit proteins essential to the formation of functional clathrin-coated pits. Has a lipid-binding activity with a preference for membranes enriched in phosphatidylserine and phosphoinositides (Pi(4,5) biphosphate) like the plasma membrane. Its membrane-bending activity might be important for the subsequent action of clathrin and adaptors in the formation of clathrin-coated vesicles. Involved in adaptor protein complex AP-2- |

dependent endocytosis of the transferrin receptor, it also functions in the AP-2-independent endocytosis of the LDL receptor.

### Cellular Location

Membrane, clathrin-coated pit; Peripheral membrane protein; Cytoplasmic side. Note=Associated with forming but not mature clathrin-coated vesicles. The recruitment to coated-pits precede the one of clathrin and the adaptor protein complex AP-2 (By similarity)

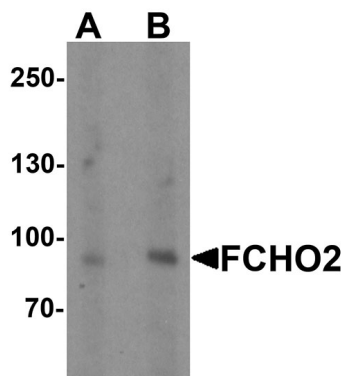
## Background

FCHO2 Antibody: FCHO2 (FCH domain only 2) is a ubiquitously expressed member of the FCFBS superfamily characterized by FES-CIP4 homology (FCH) domain, an FBH domain, and an SH3 domain. Both FCHO2 and the related protein FCHO1 are mediators of clathrin-mediated endocytosis, acting to sculpt the initial bud site and recruit the clathrin machinery for clathrin-coated vesicle formation. FCHO2 binds to Eps15, an important adaptor protein in clathrin-mediated endocytosis.

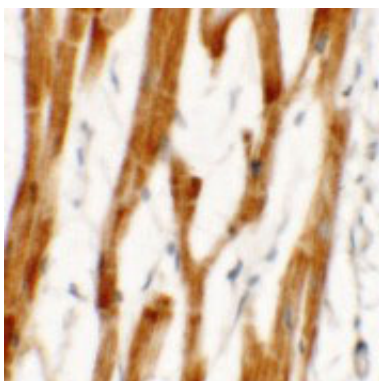
## References

- Katoh M and Katoh M. Identification and characterization of human FCHO2 and mouse fcho2 genes in silico. *Int. J. Mol. Med.* 2004; 14:327-31
- Henne WM, Boucrot E, Meinecke M, et al. FCHO proteins are nucleators of clathrin-mediated endocytosis. *Science* 2010; 328:1281-4.
- Uezu A, Umeda K, Tsujita K, et al. Characterization of the EFC/F-BAR domain protein, FCHO2. *Genes Cells* 2011; 16:868-78.

## Images

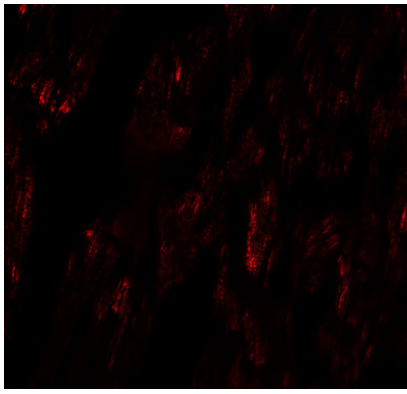


Western blot analysis of FCHO2 in rat heart tissue lysate with FCHO2 antibody at (A) 1 and (B) 2  $\mu$ g/ml



Immunohistochemistry of FCHO2 in human heart tissue with FCHO2 antibody at 2.5  $\mu$ g/mL.

Immunofluorescence of FCHO2 in human heart tissue with FCHO2 antibody at 20  $\mu$ g/mL.



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