

**FCHO2 Antibody**  
**Catalog # ASC11488****Specification**

---

**FCHO2 Antibody - Product Information**

Application	WB, IHC, IF
Primary Accession	<a href="#">O0JRZ9</a>
Other Accession	<a href="#">NP_620137</a> , <a href="#">226371723</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	FCHO2 antibody can be used for detection of FCHO2 by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL. For immunofluorescence start at 2.5 µg/mL.

**FCHO2 Antibody - Additional Information**Gene ID **115548****Target/Specificity**

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.

**Reconstitution & Storage**

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.

**Precautions**

FCHO2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**FCHO2 Antibody - Protein Information****Name** FCHO2**Function**

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.

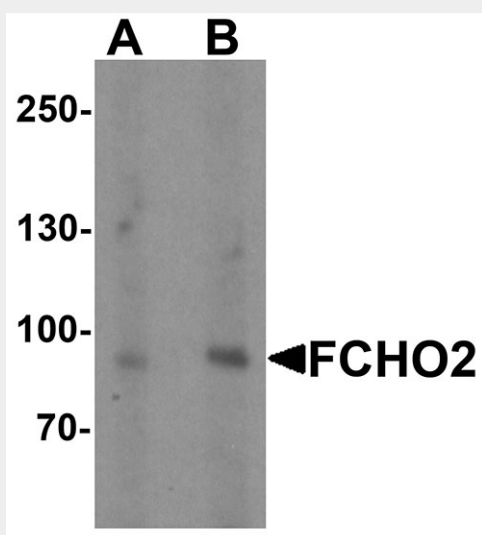
**Cellular Location**

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

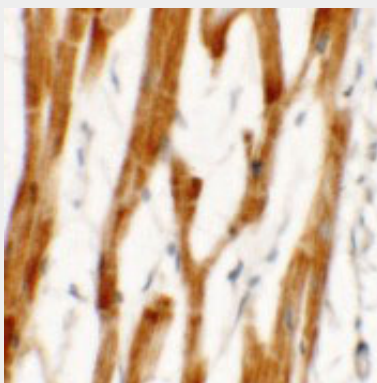
**FCHO2 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

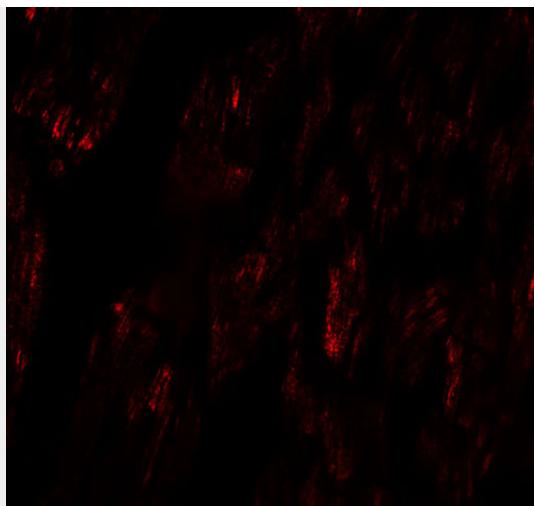
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**FCHO2 Antibody - Images**

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



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



Immunofluorescence of FCHO2 in human heart tissue with FCHO2 antibody at 20 µg/mL.

### **FCHO2 Antibody - 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.

### **FCHO2 Antibody - 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.