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FCHO2 Antibody
Catalog # ASC11488

Specification

FCHO2 Antibody - Product Information

Application	**WB, IHC-P, IF, E**
Primary Accession	Q0JRZ9
Other Accession	NP_620137, 226371723
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℃ for three months and -20℃, 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.

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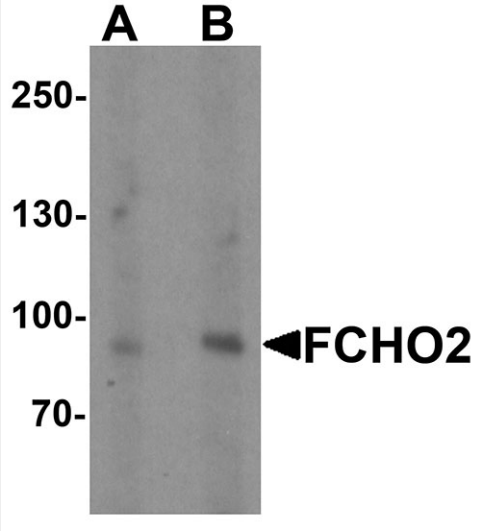
Cellular Location
Membrane, clathrin-coated pit; Peripheral membrane protein; Cytoplasmic side. Note=Associated with forming but not mature clathrin- coated vesicles. The recruitment to coated-pits precede the one of clathrin and the adaptor protein complex AP-2 (By similarity)

FCHO2 Antibody - Protocols

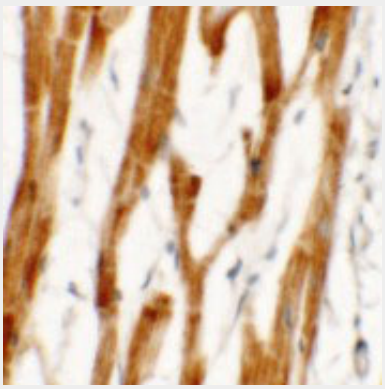
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

FCHO2 Antibody - Images



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



Immunohistochemistry of FCHO2 in human heart tissue with FCHO2 antibody at 2.5 µg/mL.

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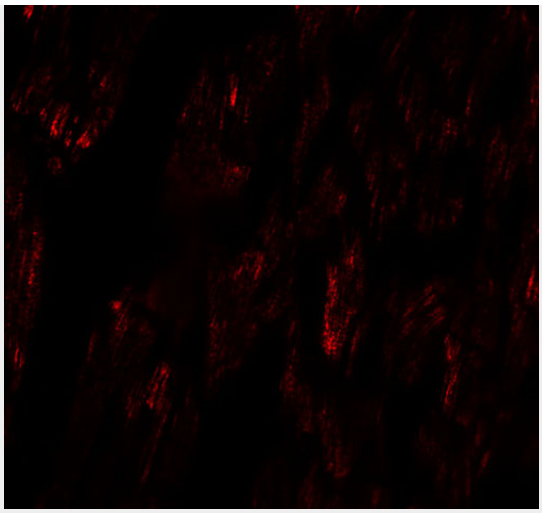

Immunofluorescence of FCHO2 in human heart tissue with FCHO2 antibody at 20 µg/mL.

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.