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FCSD2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20110b

Product Information

Application	WB, E
Primary Accession	O94868
Other Accession	NP_055639.2
Reactivity	Human
Predicted	Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB42675
Calculated MW	84276
Antigen Region	706-734

Additional Information

Gene ID	9873
Other Names	FCH and double SH3 domains protein 2, Carom, SH3 multiple domains protein 3, FCHSD2, KIAA0769, SH3MD3
Target/Specificity	This FCSD2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 706-734 amino acids from the C-terminal region of human FCSD2.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	FCSD2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	FCHSD2
Synonyms	KIAA0769, SH3MD3

Function	Adapter protein that plays a role in endocytosis via clathrin-coated pits. Contributes to the internalization of cell surface receptors, such as integrin ITGB1 and transferrin receptor (PubMed:29887380). Promotes endocytosis of EGFR in cancer cells, and thereby contributes to the down-regulation of EGFR signaling (PubMed:30249660). Recruited to clathrin-coated pits during a mid-to- late stage of assembly, where it is required for normal progress from U-shaped intermediate stage pits to terminal, omega-shaped pits (PubMed:29887380). Binds to membranes enriched in phosphatidylinositol 3,4-bisphosphate or phosphatidylinositol 3,4,5-trisphosphate (PubMed:29887380). When bound to membranes, promotes actin polymerization via its interaction with WAS and/or WASL which leads to the activation of the Arp2/3 complex. Does not promote actin polymerization in the absence of membranes (PubMed:29887380).
Cellular Location	Cytoplasm {ECO:0000250|UniProtKB:Q3USJ8}. Cell junction. Membrane, clathrin-coated pit. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cell projection, stereocilium {ECO:0000250|UniProtKB:Q3USJ8}. Note=Partially localized at clathrin-coated pits at the cell membrane (PubMed:30249660). Detected at the cell membrane at sites around clathrin-coated pits, very close to the clathrin-coated pits but not an intrinsic part of the clathrin-coated pits (PubMed:29887380) Colocalizes at cell-cell contacts with CDH1, but is not detected at tight junctions (PubMed:14627983).
Tissue Location	Liver, brain, heart, placenta, skeletal muscle, pancreas, lung and kidney.

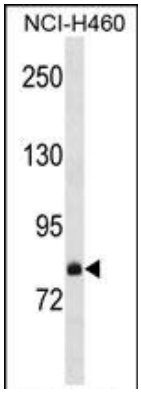
Background

The function of this protein is unknown.

References

Rose, J. Phd, et al. Mol. Med. (2010) In press :
Thalappilly, S., et al. Proteomics 8(15):3071-3081(2008)
Taylor, T.D., et al. Nature 440(7083):497-500(2006)
Katoh, M., et al. Int. J. Mol. Med. 13(5):749-754(2004)
Coyle, I.P., et al. Neuron 41(4):521-534(2004)

Images



FCSD2 Antibody (C-term) (Cat. #AP20110b) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the FCSD2 antibody detected the FCSD2 protein (arrow).