10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-Carom / FCHSD2 Antibody

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS17762

Product Information

Application	IHC-P
Primary Accession	O94868
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	84276
Concentration (mg/ml)	1 mg/ml

Additional Information

Gene ID	9873
Alias Symbol	FCHSD2
Other Names	FCHSD2, Carom, FCH and double SH3 domains 2, NWK, KIAA0769, Nervous wreck homolog, SH3 multiple domains 3, SH3 multiple domains protein 3, SH3MD3
Reconstitution & Storage	Immunoaffinity purified
Precautions	Anti-Carom / FCHSD2 Antibody 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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.