

# Anti-Carom / FCHSD2 Antibody

Rabbit Anti Human Polyclonal Antibody

Catalog # ALS17762

## Product Information

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|-----------------------|------------------------|
| Application           | IHC-P                  |
| Primary Accession     | <a href="#">O94868</a> |
| Predicted             | Human                  |
| Host                  | Rabbit                 |
| Clonality             | Polyclonal             |
| Calculated MW         | 84276                  |
| Concentration (mg/ml) | 1 mg/ml                |

## Additional Information

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| 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

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| 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: <a href="#">29887380</a> ). Promotes endocytosis of EGFR in cancer cells, and thereby contributes to the down-regulation of EGFR signaling (PubMed: <a href="#">30249660</a> ). 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: <a href="#">29887380</a> ). Binds to membranes enriched in phosphatidylinositol 3,4-bisphosphate or phosphatidylinositol 3,4,5-trisphosphate (PubMed: <a href="#">29887380</a> ). 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: <a href="#">29887380</a> ). |

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| <b>Cellular Location</b> | 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). |
| <b>Tissue Location</b>   | 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'.