

Recombinant Human FCHSD2 Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. FCHSD2-311H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	FCHSD2 MS Standard C13 and N15-labeled recombinant protein (NP_055639) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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. Promotes endocytosis of EGFR in cancer cells, and thereby contributes to the down-regulation of EGFR signaling. 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. Binds to membranes enriched in phosphatidylinositol 3,4-bisphosphate or phosphatidylinositol 3,4,5-trisphosphate. 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 polymerisation in the absence of membranes.
Molecular Mass	77.6 kDa
AA Sequence	MQKLASQYLKRDWPGVKADDRNDYRSMYPVWKSFLEGTMQVAQSRMNICENYKN FISEPARTVRSLKEQQLKRCVDQLTKIQTELQETVKDLAKGKKKYFETEQMAHAVRE KADIEAKSKLSLFQSRISLQKASVKLKARRSECNSKATHARNDYLLTLAAANAHQDR

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YYQTDLVNIMKALDGNVYDHLKDYLIAFSRTELETQAVQNTFQFLENSSSKVVRDY
 NLQLFLQENAVFHKPQPFQFQPCDSDTSRQLESETGTTEEHS LNKEARKWATRVAR
 EHKNIVHQQRVLNDLECHGAAVSEQSRAELEQKIDEARENIRKAEIILKAEARLDLLK
 QIGVSVDTWLKSAMNQVMEELENERWARPPAVTSNGTLHSLNADTEREEGEEFED
 NMDVFDDSSSSPSGTLRNYPLTCKVVYSYKASQPDEL TIEEHEVLEVEDGDMEDW
 VKARNKVGQVGYPKEYLQFPTSNSLLSMLQSLAALDSRSHTSSNSTEAE LVSGSL
 NGDASVCFVKALYD YEGQTDDELSFPEGAIIRILNKENQDDDGFWEGEFN GRIGVFP
 SVLVEELSASENGDTPWMREIQISPSPKPHASLPPLPLYDQPPSPYPSPDKRSSLY
 FPRSPSANEKSLHAESPGFSQASRHTPETS YGKL RPVRAAPPPPTQNHRRPAEKIE
 DVEITLVTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name FCHSD2 FCH and double SH3 domains 2 [Homo sapiens (human)]

Official Symbol FCHSD2

Synonyms NWK; SH3MD3

Gene ID 9873

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mRNA Refseq [NM_014824](#)

Protein Refseq [NP_055639](#)

MIM [617556](#)

UniProt ID [O94868](#)

SDS-PAGE



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