

Recombinant Human FCHSD Protein, Full Length, C-Flag tagged

Cat. No. FCHSD-213HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human FCH and double SH3 domains 2 (FCHSD2), with a C-Flag tag was expressed in HEK293T.
Species	Human
Source	HEK293
ProteinLength	Full Length
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

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KADIEAKSKLSLFQSRISLQKASVKLKARRSECNSKATHARNDYLLTLAAANAHQDR
 YYQTDLVNIMKALDGNVYDHLKDYLIAFSRTELETCQAVQNTFQFLENSSSKVVRDY
 NLQLFLQENAVFHKPQPFQFQPCSDTSRQLESETGTTEEHSNLKEARKWATRVAR
 EHKNIVHQQRVLNDLECHGAAVSEQSRAELEQKIDEARENIRKAEIILKAEARLDLLK
 QIGVSVDTWLKSAMNQVMEELENERWARPPAVTSNGTLHSLNADTEREEGEEFED
 NMDVFDDSSSSPSGTLRNYPLTCKVVYSYKASQPDELITIEHEVLEVIEDGDMEDW
 VKARNKVGQVGYPPEKYLQFPTSNSLLSMLQSLAALDSRSHTSSNSTEAEVSGSL
 NGDASVCFVKALYDYEQQTDDLSFPEGAIIRILNKENQDDDGFWEGEFNGRIGVFP
 SVLVEELSASENGDTPWMREIQISPSPKPHASLPPLPLYDQPPSSPYSPDKRSSLY
 FPRSPSANEKSLHAESPGFSQASRHTPETSYGKLRPVRAAPPPTQNHRRPAEKIE
 DVEITLVTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Notes	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	> 0.05 µg/µL as determined by microplate BCA method
Storage Buffer	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

GENE INFORMATION

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

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Synonyms	FCHSD2; FCH and double SH3 domains 2; NWK; NWK1; SH3MD3; F-BAR and double SH3 domains protein 2; FCH and double SH3 domains protein 2; SH3 multiple domains 3; SH3 multiple domains protein 3; carom; nervous wreck homolog; protein nervous wreck 1
Gene ID	9873
mRNA Refseq	NM_014824
Protein Refseq	NP_055639
MIM	617556
UniProt ID	O94868
SDS-PAGE	