

Recombinant Human CYTH2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CYTH2-6385H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CYTH2 MS Standard C13 and N15-labeled recombinant protein (NP_059431) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is a member of the PSCD family. Members of this family have identical structural organization that consists of an N-terminal coiled-coil motif, a central Sec7 domain, and a C-terminal pleckstrin homology (PH) domain. The coiled-coil motif is involved in homodimerization, the Sec7 domain contains guanine-nucleotide exchange protein (GEP) activity, and the PH domain interacts with phospholipids and is responsible for association of PSCDs with membranes. Members of this family appear to mediate the regulation of protein sorting and membrane trafficking. The encoded protein exhibits GEP activity in vitro with ARF1, ARF3, and ARF6 and is 83% homologous to CYTH1. Two transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	46.6 kDa
AA Sequence	MEDGVYEPDLTPPEERMELENIRRRKQELLVEIQLREELSEAMSEVEGLEANEYSK TLQRNRKMMAMGRKKFNMDPKKGIQFLVENELLQNTPEEIARFLYKGEGLNKTAIGDY LGEREELNLAVLHAFVDLHEFTDLNLVQALRQFLWSFRLPGEAQKIDRMMEAFAQR

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YCLCNPGVFQSTDTCYVLSFAVIMLNTSLHNPNVRDKPGLERFVAMNRGINEGGDL
 PEELLRNLYDSIRNEPFKIPEDDGNDLTHHTFFNPDREGWLLKLGGGRVKTWKRRWFI
 LTDNCLYYFEYTTDKEPRGIIPQENLSIREVDDPRKPNCFELYIPNNKGQLIKACKTEA
 DGRVVEGNHVMYRISAPTQEEKDEWIKSIQAAVSVDPFYEMLAARKKRISVKKKQEQ
 PTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 CYTH2 cytohesin 2 [Homo sapiens (human)]

Official Symbol CYTH2

Synonyms CYTH2; cytohesin 2; pleckstrin homology, Sec7 and coiled coil domains 2, pleckstrin homology, Sec7 and coiled/coil domains 2 (cytohesin 2), PSCD2, PSCD2L; cytohesin-2; ARNO; CTS18.1; Sec7p L; Sec7p like; ARF exchange factor; ARF nucleotide-binding site opener; PH, SEC7 and coiled-coil domain-containing protein 2; pleckstrin homology, Sec7 and coiled-coil domains 2 (cytohesin-2); pleckstrin homology, Sec7 and coiled/coil domains 2 (cytohesin-2); CTS18; PSCD2; SEC7L; PSCD2L; Sec7p-L; Sec7p-like;

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Gene ID	9266
mRNA Refseq	NM_017457
Protein Refseq	NP_059431
MIM	602488
UniProt ID	Q99418
SDS-PAGE	