CYTH2 Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	CYTH2, Lysate
Full Product Name	Human CYTH2 Protein Lysate
Product Gene Name	CYTH2 lysate
Product Synonym Names	CYTH2; ARNO; CTS18; CTS18.1; cytohesin-2; PSCD2; PSCD2L; SEC7L; Sec7p-L; Sec7p-like
Host	Human
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C Once reconsituted, aliquot and store any remaining material at-20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	46kDa
OMIM	602488
3D Structure	ModBase 3D Structure for Q99418
Related Product Information for CYTH2 lysate	Human CYTH2 Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells. This protein lysate can be reconsituted using SDS Sample Buffer.
Other Notes	Small volumes of CYTH2 lysate vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CYTH2 purchase	MBS8410254 is a lysate targeting CYTH2. Also known as Human CYTH2 Protein Lysate. Host: Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CYTH2. It may not necessarily be applicable to this product.

NCBI GI #	8670546
NCBI GeneID	9266
NCBI Accession #	NP_059431
UniProt Primary Accession #	Q99418
UniProt Related Accession #	Q99418
GenBank Nucleotide #	NM_017457
NCBI Official Full Name	cytohesin-2 isoform 1
NCBI Official Synonym Full Names	cytohesin 2
NCBI Official Symbol	CYTH2
NCBI Official Synonym Symbols	ARNO; CTS18; PSCD2; SEC7L; PSCD2L; CTS18.1; Sec7p-L; Sec7p-like; cytohesin-2
UniProt Protein Name	Cytohesin-2
UniProt Synonym Protein Names	ARF exchange factor; ARF nucleotide-binding site opener; Protein ARNO; PH, SEC7 and coiled-coil domain-containing protein 2

Protein Family	Cytohesin
UniProt Gene Name	CYTH2
UniProt Synonym Gene Names	ARNO; PSCD2; PSCD2L; Protein ARNO
UniProt Entry Name	CYH2_HUMAN
NCBI Protein Information	cytohesin-2
NCBI Summary for CYTH2	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. [provided by RefSeq, Aug 2008]
UniProt Comments for CYTH2	cytohesin 2: Acts as a guanine-nucleotide exchange factor (GEF). Promotes guanine-nucleotide exchange on ARF1, ARF3 and ARF6. Promotes the activation of ARF factors through replacement of GDP with GTP. The cell membrane form, in association with ARL4 proteins, recruits ARF6 to the plasma membrane. 2 isoforms of the human protein are produced by alternative splicing. Protein type: GEFs; GEFs, ARF Chromosomal Location of Human Ortholog: 19q13.33 Cellular Component: membrane; cytoplasm; plasma membrane; trans-Golgi network Molecular Function: protein binding; lipid binding; ARF guanyl-nucleotide exchange factor activity Biological Process: regulation of cell adhesion; vesicle-mediated transport; endocytosis; regulation of ARF protein signal transduction; actin cytoskeleton organization and biogenesis; positive regulation of GTPase activity
Research Articles on CYTH2	**1.** ARNO-ARF1 regulates formation of podosomes by inhibition of RhoA/myosin-II and promotion of actin core assembly.
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