

## Recombinant Human CYTH3 cell lysate

**Cat. No.** CYTH3-1425HCL    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Species</b>        | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>    | <p>This gene encodes a member of the PSCD (pleckstrin homology, Sec7 and coiled-coil domains) family. PSCD family members 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. This encoded protein is involved in the control of Golgi structure and function, and it may have a physiological role in regulating ADP-ribosylation factor protein 6 (ARF) functions, in addition to acting on ARF1.</p> |
| <b>Size</b>           | 100 ul                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Storage Buffer</b> | 1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Applications</b>   | Western Blot;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

### GENE INFORMATION

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|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | CYTH3 cytohesin 3 [ Homo sapiens ]                                                                                                                                                                                                                                                                          |
| <b>Official Symbol</b>     | CYTH3                                                                                                                                                                                                                                                                                                       |
| <b>Synonyms</b>            | CYTH3; cytohesin 3; pleckstrin homology, Sec7 and coiled coil domains 3 , PSCD3; cytohesin-3; ARNO3; GRP1; ARF nucleotide-binding site opener 3; general receptor of phosphoinositides 1; pleckstrin homology, Sec7 and coiled-coil domains 3; PH, SEC7 and coiled-coil domain-containing protein 3; PSCD3; |
| <b>Gene ID</b>             | 9265                                                                                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>         | NM_004227                                                                                                                                                                                                                                                                                                   |
| <b>Protein Refseq</b>      | NP_004218                                                                                                                                                                                                                                                                                                   |
| <b>MIM</b>                 | 605081                                                                                                                                                                                                                                                                                                      |
| <b>UniProt ID</b>          | O43739                                                                                                                                                                                                                                                                                                      |
| <b>Chromosome Location</b> | 7p22.1                                                                                                                                                                                                                                                                                                      |
| <b>Pathway</b>             | Arf6 signaling events, organism-specific biosystem; Class I PI3K signaling events, organism-specific biosystem; Insulin Signaling, organism-specific biosystem;                                                                                                                                             |
| <b>Function</b>            | 1-phosphatidylinositol binding; ARF guanyl-nucleotide exchange factor activity; inositol 1,4,5-trisphosphate-sensitive calcium-release channel activity;                                                                                                                                                    |