

## Recombinant Human INPP5E cell lysate

**Cat. No.** INPP5E-862HCL    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>        | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>    | The protein encoded by this gene is an inositol 1,4,5-trisphosphate (InsP3) 5-phosphatase. InsP3 5-phosphatases hydrolyze Ins(1,4,5)P3, which mobilizes intracellular calcium and acts as a second messenger mediating cell responses to various stimulation. Studies of the mouse counterpart suggest that this protein may hydrolyze phosphatidylinositol 3,4, 5-trisphosphate and phosphatidylinositol 3,5-bisphosphate on the cytoplasmic Golgi membrane and thereby regulate Golgi-vesicular trafficking. |
| <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

|                        |                                                                                  |
|------------------------|----------------------------------------------------------------------------------|
| <b>Gene Name</b>       | INPP5E inositol polyphosphate-5-phosphatase, 72 kDa [ Homo sapiens ]             |
| <b>Official Symbol</b> | INPP5E                                                                           |
| <b>Synonyms</b>        | INPP5E; inositol polyphosphate-5-phosphatase, 72 kDa; JBTS1, Joubert syndrome 1; |

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|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            | 72 kDa inositol polyphosphate 5-phosphatase; CORS1; PPI5PIV; phosphatidylinositol 4,5-bisphosphate 5-phosphatase; phosphatidylinositol-4,5-bisphosphate 5-phosphatase; phosphatidylinositol (4,5) bisphosphate 5-phosphatase; phosphatidylinositol polyphosphate 5-phosphatase type IV; CPD4; JBTS1; MORMS; MGC117201;                                                                                             |
| <b>Gene ID</b>             | <a href="#">56623</a>                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>mRNA Refseq</b>         | <a href="#">NM_019892</a>                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Protein Refseq</b>      | <a href="#">NP_063945</a>                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>MIM</b>                 | <a href="#">613037</a>                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>UniProt ID</b>          | <a href="#">Q9NRR6</a>                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Chromosome Location</b> | 9q34.3                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Pathway</b>             | 3-phosphoinositide degradation, organism-specific biosystem; 3-phosphoinositide degradation, conserved biosystem; Inositol phosphate metabolism, organism-specific biosystem; Inositol phosphate metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; Phosphatidylinositol signaling system, organism-specific biosystem; Phosphatidylinositol signaling system, conserved biosystem; |
| <b>Function</b>            | hydrolase activity; inositol-polyphosphate 5-phosphatase activity; phosphatidylinositol-4,5-bisphosphate 5-phosphatase activity;                                                                                                                                                                                                                                                                                   |