

## PIP4K2B recombinant protein

PIP4K2B, Active

|                              |                                                   |                                     |
|------------------------------|---------------------------------------------------|-------------------------------------|
| CATALOG #<br><b>AAA73089</b> | HOST<br><b>Sf9 insect cells using baculovirus</b> | APPLICATIONS<br><b>Kinase Assay</b> |
|------------------------------|---------------------------------------------------|-------------------------------------|

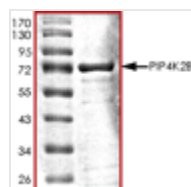
### PRODUCT SYNONYMS

PIP4K2B; Active; PIP4K2B recombinant protein

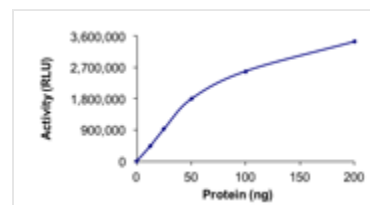
### PRODUCT SPECIFICATIONS

|                                                         |                                                                                                                                                                                                                                                      |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                    | Sf9 insect cells using baculovirus                                                                                                                                                                                                                   |
| Form/Format                                             | 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.                                                                                                                                               |
| Sequence Positions                                      | Full length                                                                                                                                                                                                                                          |
| Sequence Length                                         | 5732                                                                                                                                                                                                                                                 |
| Applicable Applications for PIP4K2B recombinant protein | Kinase Assay                                                                                                                                                                                                                                         |
| Species                                                 | Human                                                                                                                                                                                                                                                |
| Tag                                                     | GST tag                                                                                                                                                                                                                                              |
| Dry Ice Note                                            | The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.                                                                                                                                                   |
| Preparation and Storage                                 | Store product at -70 degree C.<br>For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature.<br>For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. |

### IMAGES



Application Data



Application Data

### ADDITIONAL INFORMATION

|                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| Related Product Information for PIP4K2B recombinant protein | <p>Description: Recombinant full-length human PIP4K2B was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.</p> <p>Scientific Background: PIP4K2B (phosphatidylinositol-5-phosphate 4-kinase, type II, beta) catalyzes the phosphorylation of phosphatidylinositol-5-phosphate on the fourth hydroxyl of the myo-inositol ring to form phosphatidylinositol-5,4-bisphosphate. PIP4K2B is a member of the phosphatidylinositol-5-phosphate 4-kinase family. PIP5K2B interacts specifically with the juxtamembrane region of the p55 TNF receptor and that PIP5K2B activity is increased in mammalian cells by treatment with TNF-alpha (1). PIP5P4KB plays a role in determining insulin sensitivity and adiposity (2).</p> |
| Product Categories/Family for PIP4K2B recombinant protein   | Enzymes; Active Lipid Kinases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

|            |                                                                                                                                                                                                                                                                                                                                                                                         |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| References | 1. Castellino. et.al: A novel interaction between the juxtamembrane region of the p55 tumor necrosis factor receptor and phosphatidylinositol-4-phosphate 5-kinase. J. Biol. Chem. 272: 5861-5870, 1997. 2. Lamia, K. A. et.al: Increased insulin sensitivity and reduced adiposity in phosphatidylinositol 5-phosphate 4-kinase beta -/- mice. Molec. Cell. Biol. 24: 5080-5087, 2004. |
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### NCBI AND UNIPROT INFORMATION

|                                  |                                                                                    |
|----------------------------------|------------------------------------------------------------------------------------|
| NCBI GI #                        | 117938278                                                                          |
| NCBI GeneID                      | 8396                                                                               |
| NCBI Accession #                 | NM_003559.4                                                                        |
| NCBI GenBank Nucleotide #        | NM_003559                                                                          |
| UniProt Accession #              | P78356; Q5U0E8; Q8TBP2                                                             |
| Molecular Weight                 | 73 kDa                                                                             |
| NCBI Official Full Name          | Homo sapiens phosphatidylinositol-5-phosphate 4-kinase type 2 beta (PIP4K2B), mRNA |
| NCBI Official Synonym Full Names | phosphatidylinositol-5-phosphate 4-kinase type 2 beta                              |
| NCBI Official Symbol             | PIP4K2B                                                                            |
| NCBI Official Synonym Symbols    | PI5P4KB; PIP5K2B; PIP5KIIB; PIP5P4KB; PIP5KIIBeta                                  |
| NCBI Protein Information         | phosphatidylinositol 5-phosphate 4-kinase type-2 beta                              |
| UniProt Protein Name             | Phosphatidylinositol 5-phosphate 4-kinase type-2 beta                              |
| UniProt Gene Name                | <b>PIP4K2B</b>                                                                     |
| UniProt Synonym Gene Names       | PIP5K2B; PI(5)P 4-kinase type II beta; PIP4KII-beta                                |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.