

## Recombinant Human PI4K2A cell lysate

**Cat. No.** PI4K2A-1350HCL    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

|                       |                                                                                                                                                                                                                                                                                                                                              |
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| <b>Species</b>        | Human                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>    | Phosphatidylinositolpolyphosphates (PtdInsPs) are centrally involved in many biologic processes, ranging from cell growth and organization of the actin cytoskeleton to end o- and exocytosis. PI4KII phosphorylates PtdIns at the D-4 position, an essential step in the biosynthesis of PtdInsPs (Barylko et al., 2001 [PubMed 11244087]). |
| <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>       | PI4K2A phosphatidylinositol 4-kinase type 2 alpha [ Homo sapiens ]                                                                                                                                                                                        |
| <b>Official Symbol</b> | PI4K2A                                                                                                                                                                                                                                                    |
| <b>Synonyms</b>        | PI4K2A; phosphatidylinositol 4-kinase type 2 alpha; phosphatidylinositol 4-kinase type 2-alpha; DKFZP761G1923; PI4KII; PIK42A; phosphatidylinositol 4-kinase type II-alpha; phosphatidylinositol 4-kinase type II (PI4KII); RP11-548K23.6; DKFZp761G1923; |

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| <b>Gene ID</b>             | 55361                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>mRNA Refseq</b>         | NM_018425                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Refseq</b>      | NP_060895                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>MIM</b>                 | 609763                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>UniProt ID</b>          | Q9BTU6                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Chromosome Location</b> | 10q24                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Pathway</b>             | 3-phosphoinositide biosynthesis, organism-specific biosystem; 3-phosphoinositide biosynthesis, conserved biosystem; Canonical Wnt signaling pathway, organism-specific biosystem; D-myo-inositol (1,4,5)-trisphosphate biosynthesis, organism-specific biosystem; D-myo-inositol (1,4,5)-trisphosphate biosynthesis, conserved biosystem; Inositol phosphate metabolism, organism-specific biosystem; Inositol phosphate metabolism, conserved biosystem; |
| <b>Function</b>            | 1-phosphatidylinositol 4-kinase activity; ATP binding; kinase activity; magnesium ion binding; nucleotide binding; transferase activity;                                                                                                                                                                                                                                                                                                                  |