

## Product datasheet for **TA801638**

### PI 3 Kinase Class 2A (PIK3C2A) Mouse Monoclonal Antibody [Clone ID: OTI1A9]

#### Product data:

|                         |                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Product Type:           | Primary Antibodies                                                                                                                    |
| Clone Name:             | OTI1A9                                                                                                                                |
| Applications:           | WB                                                                                                                                    |
| Recommended Dilution:   | WB 1:2000                                                                                                                             |
| Reactivity:             | Human, Mouse, Rat                                                                                                                     |
| Host:                   | Mouse                                                                                                                                 |
| Isotype:                | IgG2a                                                                                                                                 |
| Clonality:              | Monoclonal                                                                                                                            |
| Immunogen:              | Human recombinant protein fragment corresponding to amino acids 230-560 of human PIK3C2A (NP_002636) produced in E.coli.              |
| Formulation:            | PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.                                                                  |
| Concentration:          | 1 mg/ml                                                                                                                               |
| Purification:           | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)                             |
| Conjugation:            | Unconjugated                                                                                                                          |
| Storage:                | Store at -20°C as received.                                                                                                           |
| Stability:              | Stable for 12 months from date of receipt.                                                                                            |
| Predicted Protein Size: | 190.5 kDa                                                                                                                             |
| Gene Name:              | phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 alpha                                                              |
| Database Link:          | <a href="#">NP_002636</a><br><a href="#">Entrez Gene 18704 Mouse</a> <a href="#">Entrez Gene 5286 Human</a><br><a href="#">O00443</a> |


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**Background:**

The protein encoded by this gene belongs to the phosphoinositide 3-kinase (PI3K) family. PI3-kinases play roles in signaling pathways involved in cell proliferation, oncogenic transformation, cell survival, cell migration, and intracellular protein trafficking. This protein contains a lipid kinase catalytic domain as well as a C-terminal C2 domain, a characteristic of class II PI3-kinases. C2 domains act as calcium-dependent phospholipid binding motifs that mediate translocation of proteins to membranes, and may also mediate protein-protein interactions. The PI3-kinase activity of this protein is not sensitive to nanomolar levels of the inhibitor wortmanin. This protein was shown to be able to be activated by insulin and may be involved in integrin-dependent signaling. [provided by RefSeq, Jul 2008]

**Synonyms:**

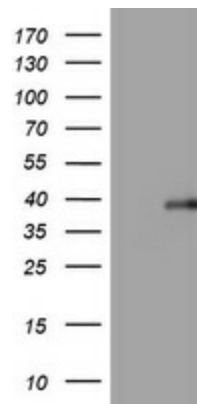
CPK; PI3-K-C2(ALPHA); PI3-K-C2A

**Protein Families:**

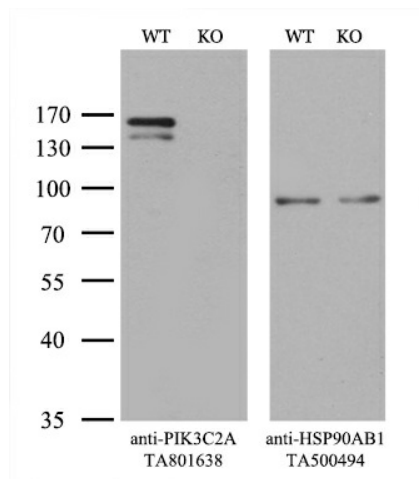
Druggable Genome

**Protein Pathways:**

Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system

**Product images:**


E.coli lysate (left lane) and E.coli lysate expressing human recombinant protein fragment corresponding to amino acids 230-560 of human PIK3C2A (NP\_002636) were separated by SDS-PAGE and immunoblotted with anti-PIK3C2A.



Equivalent amounts of cell lysates (10 ug per lane) of wild-type HeLa cells (WT, Cat# LC810HELA) and PIK3C2A-Knockout HeLa cells (KO, Cat# [LC810172]) were separated by SDS-PAGE and immunoblotted with anti-PIK3C2A monoclonal antibody TA801638. Then the blotted membrane was stripped and reprobed with anti-HSP90AB1 antibody ([TA500494]) as a loading control (1:500).