

## Product datasheet for **TA506011BM**

### PIK3C2B Mouse Monoclonal Antibody (HRP conjugated) [Clone ID: OTI2G3]

#### Product data:

|                       |   |
|-----------------------|---|
| Product Type:         | Primary Antibodies  |
| Clone Name:           | OTI2G3  |
| Applications:         | IF, IHC, WB   |
| Recommended Dilution: | WB 1:2000~4000, IHC 1:150, IF 1:100   |
| Reactivity:           | Human, Mouse, Rat   |
| Host:                 | Mouse   |
| Isotype:              | IgG2a   |
| Clonality:            | Monoclonal  |
| Immunogen:            | Full length human recombinant protein of human PIK3C2B(NP_002637) produced in HEK293T cell.               |
| Formulation:          | PBS (pH 7.3) containing 1% BSA, 50% glycerol.   |
| Concentration:        | 0.5 mg/ml   |
| Purification:         | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G) |
| Conjugation:          | HRP   |
| Storage:              | Store at -20°C as received.   |
| Stability:            | Stable for 12 months from date of receipt.  |
| Gene Name:            | phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 beta                                   |
| Database Link:        | <a href="#">NP_002637</a><br><a href="#">Entrez Gene 5287 Human</a><br><a href="#">O00750</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 sensitive to low nanomolar levels of the inhibitor wortmanin. The C2 domain of this protein was shown to bind phospholipids but not  $\text{Ca}^{2+}$ , which suggests that this enzyme may function in a calcium-independent manner. [provided by RefSeq, Jul 2008]

**Synonyms:**

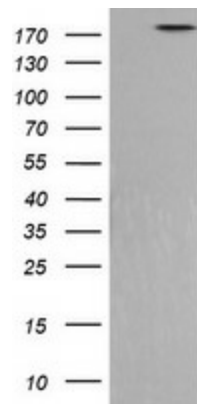
C2-PI3K

**Protein Families:**

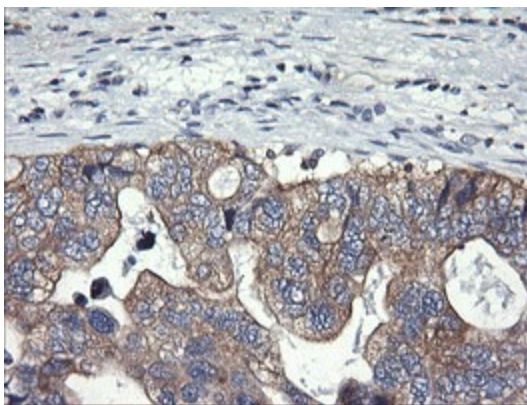
Druggable Genome

**Protein Pathways:**

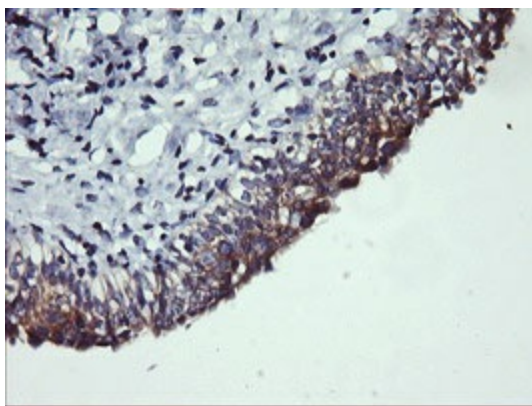
Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system

**Product images:**

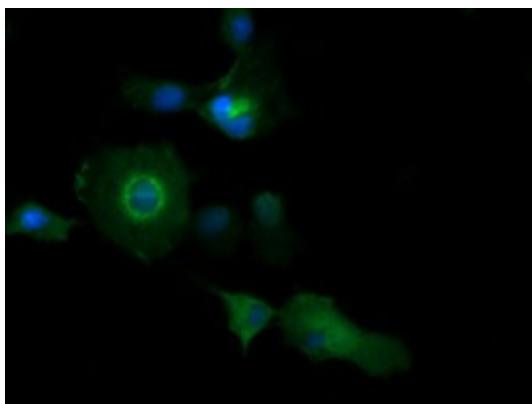
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PIK3C2B ([RC218354], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PIK3C2B. Positive lysates [LY419185] (100ug) and [LC419185] (20ug) can be purchased separately from OriGene.



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-PIK3C2B mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA506011])



Immunohistochemical staining of paraffin-embedded Human bladder tissue within the normal limits using anti-PIK3C2B mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA506011])



Anti-PIK3C2B mouse monoclonal antibody ([TA506011]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY PIK3C2B ([RC218354]).