

## Product datasheet for **TA506052**

### **PIK3C2B Mouse Monoclonal Antibody [Clone ID: OTI3B1]**

#### **Product data:**

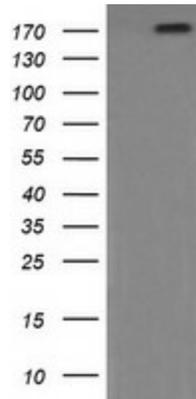
|                            |   |
|----------------------------|---|
| <b>Product Type:</b>       | Primary Antibodies  |
| <b>Clone Name:</b>         | OTI3B1  |
| <b>Applications:</b>       | IHC, WB   |
| <b>Recommend Dilution:</b> | WB 1:1000, IHC 1:150  |
| <b>Reactivity:</b>         | Human   |
| <b>Host:</b>               | Mouse   |
| <b>Isotype:</b>            | IgG1  |
| <b>Clonality:</b>          | Monoclonal  |
| <b>Immunogen:</b>          | Full length human recombinant protein of human PIK3C2B(NP_002637) produced in HEK293T cell.   |
| <b>Formulation:</b>        | PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.  |
| <b>Concentration:</b>      | 1 mg/ml   |
| <b>Purification:</b>       | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)   |
| <b>Gene Name:</b>          | phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 beta   |
| <b>Database Link:</b>      | <a href="#">NP_002637 Entrez Gene 5287 Human</a>  |
| <b>Background:</b>         | 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 Ca <sup>2+</sup> , which suggests that this enzyme may function in a calcium-independent manner. [provided by RefSeq, Jul 2008] |
| <b>Synonyms:</b>           | C2-PI3K   |
| <b>Protein Families:</b>   | Druggable Genome  |



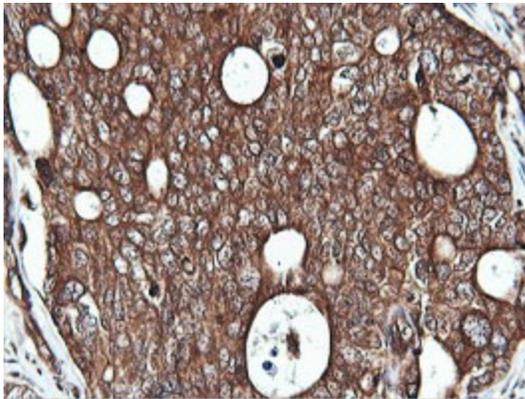
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Protein Pathways: Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system

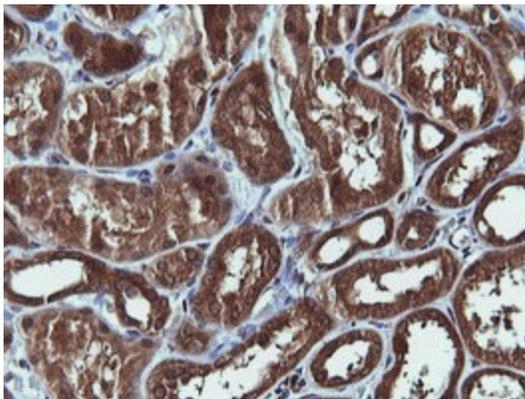
### Product images:



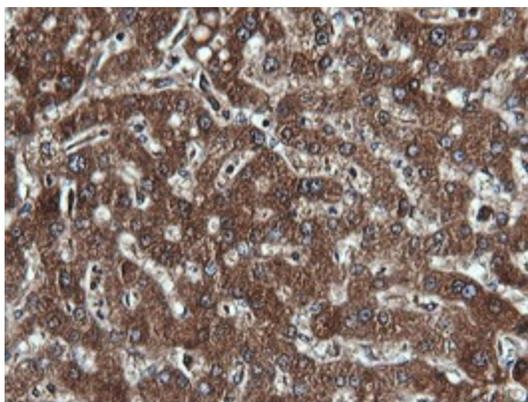
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PIK3C2B ([RC218354], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PIK3C2B. Positive lysates [LY419185] (100ug) and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



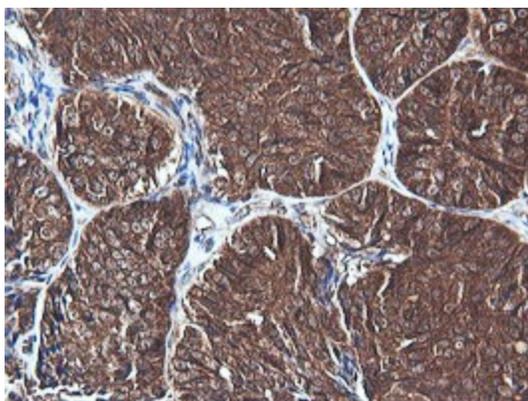
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-PIK3C2B mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, TA506052)



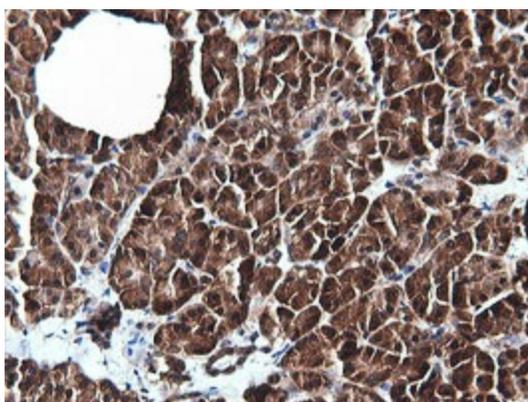
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-PIK3C2B mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, TA506052)



Immunohistochemical staining of paraffin-embedded Human liver 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, TA506052)



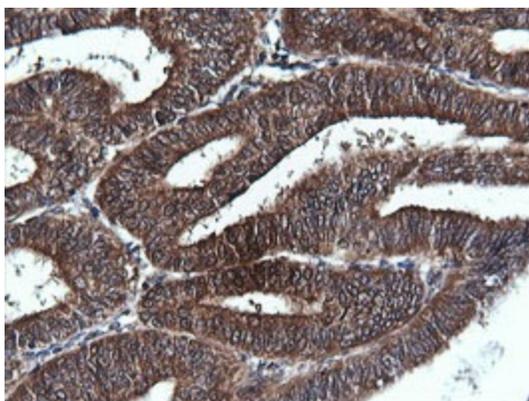
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-PIK3C2B mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, TA506052)



Immunohistochemical staining of paraffin-embedded Human pancreas 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, TA506052)



Immunohistochemical staining of paraffin-embedded Human endometrium 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, TA506052)



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-PIK3C2B mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, TA506052)