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# Product datasheet for TA801483

## PI 3 Kinase catalytic subunit alpha (PIK3CA) Mouse Monoclonal Antibody [Clone ID: OTI6D1]

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Clone Name:** | OTI6D1 |
| **Applications:** | IHC |
| **Recommend Dilution:** | IHC 1:150 |
| **Reactivity:** | Human |
| **Host:** | Mouse |
| **Isotype:** | IgG2a |
| **Clonality:** | Monoclonal |
| **Immunogen:** | Human recombinant protein fragment corresponding to amino acids 303-631 of human PIK3CA (NP_006209) 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) |
| **Predicted Protein Size:** | 124.1 kDa |
| **Gene Name:** | phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha |
| **Database Link:** | NP_006209 Entrez Gene 5290 Human |
| **Background:** | Phosphatidylinositol 3-kinase is composed of an 85 kDa regulatory subunit and a 110 kDa catalytic subunit. The protein encoded by this gene represents the catalytic subunit, which uses ATP to phosphorylate PtdIns, PtdIns4P and PtdIns(4,5)P2. This gene has been found to be oncogenic and has been implicated in cervical cancers. [provided by RefSeq, Jul 2008] |
| **Synonyms:** | CLOVE; CWS5; MCAP; MCM; MCMTC; p110-alpha; PI3K; PI3K-alpha |
| **Protein Families:** | Druggable Genome |

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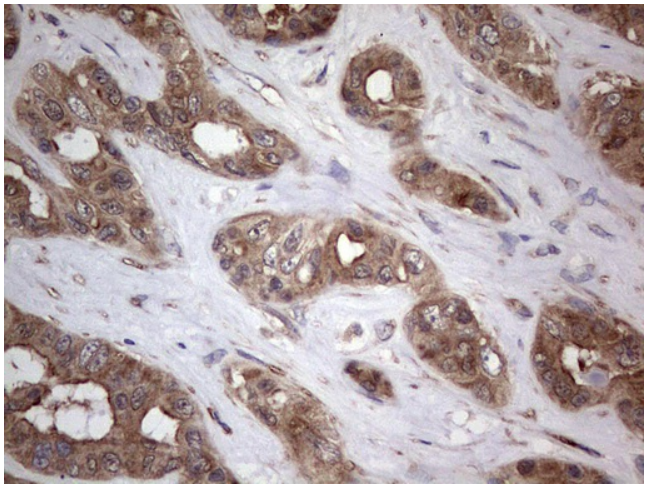
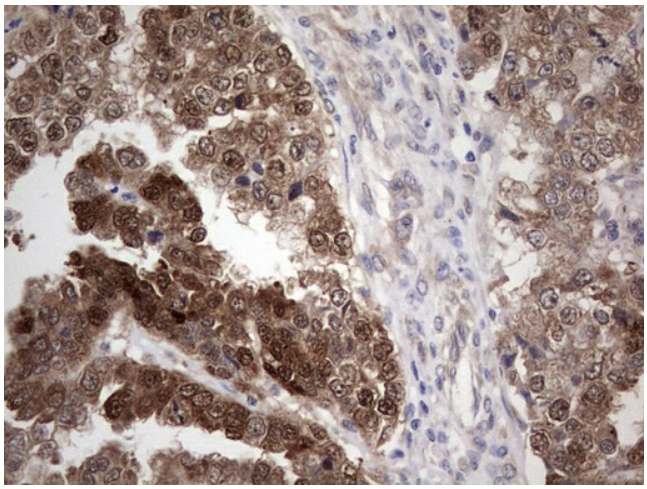
**Protein Pathways:** Acute myeloid leukemia, Apoptosis, B cell receptor signaling pathway, Chemokine signaling pathway, Chronic myeloid leukemia, Colorectal cancer, Endometrial cancer, ErbB signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, Glioma, Inositol phosphate metabolism, Insulin signaling pathway, Jak-STAT signaling pathway, Leukocyte transendothelial migration, Melanoma, mTOR signaling pathway, Natural killer cell mediated cytotoxicity, Neurotrophin signaling pathway, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Phosphatidylinositol signaling system, Progesterone-mediated oocyte maturation, Prostate cancer, Regulation of actin cytoskeleton, Renal cell carcinoma, Small cell lung cancer, T cell receptor signaling pathway, Toll-like receptor signaling pathway, Type II diabetes mellitus, VEGF signaling pathway

## Product images:



Immunohistochemical staining of paraffin-embedded Carcinoma of Human liver tissue using anti-PIK3CA mouse monoclonal antibody. (Heat-induced epitope retrieval by 1 mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, TA801483)



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-PIK3CA mouse monoclonal antibody. (Heat-induced epitope retrieval by 1 mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, TA801483)

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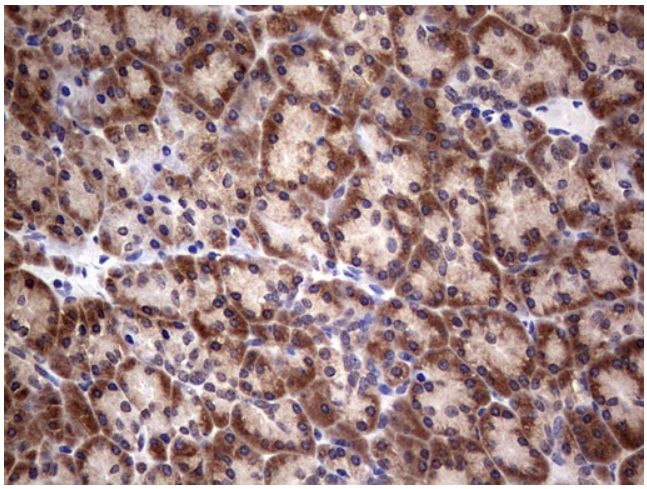
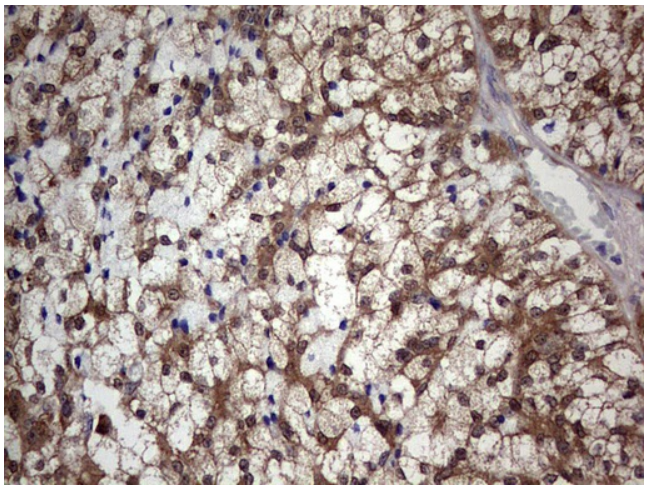
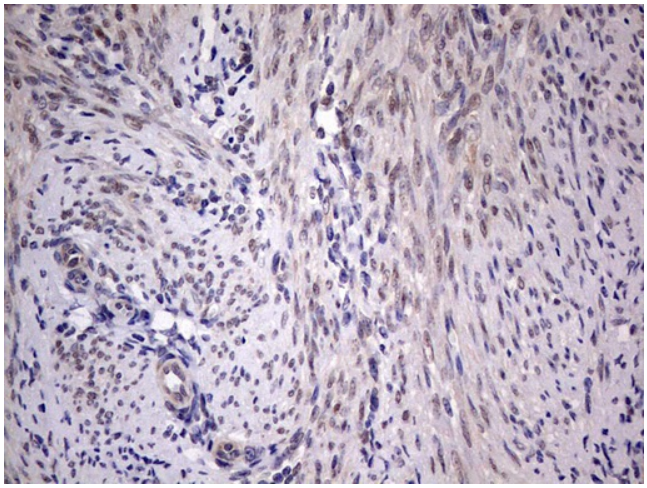


Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-PIK3CA mouse monoclonal antibody. (Heat-induced epitope retrieval by 1 mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, TA801483)



Immunohistochemical staining of paraffin-embedded Carcinoma of Human pancreas tissue using anti-PIK3CA mouse monoclonal antibody. (Heat-induced epitope retrieval by 1 mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, TA801483)



Immunohistochemical staining of paraffin-embedded Human endometrium tissue within the normal limits using anti-PIK3CA mouse monoclonal antibody. (Heat-induced epitope retrieval by 1 mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, TA801483)

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