

## Product datasheet for **TA505815**

### PIK3R5 Mouse Monoclonal Antibody [Clone ID: OTI5B1]

#### Product data:

|                         |   |
|-------------------------|---|
| Product Type:           | Primary Antibodies  |
| Clone Name:             | OTI5B1  |
| Applications:           | IF, IHC, WB   |
| Recommended Dilution:   | WB 1:100~1000, IHC 1:150, IF 1:100  |
| Reactivity:             | Human, Dog, Rat, Monkey, Mouse  |
| Host:                   | Mouse   |
| Isotype:                | IgG2a   |
| Clonality:              | Monoclonal  |
| Immunogen:              | Full length human recombinant protein of human PIK3R5(NP_055123) produced in HEK293T cell.  |
| 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: | 97.2 kDa  |
| Gene Name:              | phosphoinositide-3-kinase regulatory subunit 5  |
| Database Link:          | <a href="#">NP_055123</a><br><a href="#">Entrez Gene 320207 Mouse</a> <a href="#">Entrez Gene 497931 Rat</a> <a href="#">Entrez Gene 612805 Dog</a> <a href="#">Entrez Gene 722027 Monkey</a> <a href="#">Entrez Gene 23533 Human</a><br><a href="#">Q8WYR1</a> |


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**Background:**

Phosphatidylinositol 3-kinases (PI3Ks) phosphorylate the inositol ring of phosphatidylinositol at the 3-prime position, and play important roles in cell growth, proliferation, differentiation, motility, survival and intracellular trafficking. The PI3Ks are divided into three classes: I, II and III, and only the class I PI3Ks are involved in oncogenesis. This gene encodes the 101 kD regulatory subunit of the class I PI3K gamma complex, which is a dimeric enzyme, consisting of a 110 kD catalytic subunit gamma and a regulatory subunit of either 55, 87 or 101 kD. This protein recruits the catalytic subunit from the cytosol to the plasma membrane through high-affinity interaction with G-beta-gamma proteins. Multiple alternatively spliced transcript variants encoding two distinct isoforms have been found. [provided by RefSeq, Oct 2011]

**Synonyms:**

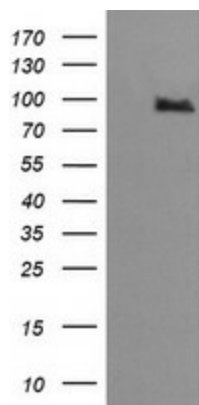
F730038I15Rik; FOAP-2; p101; P101-PI3K

**Protein Families:**

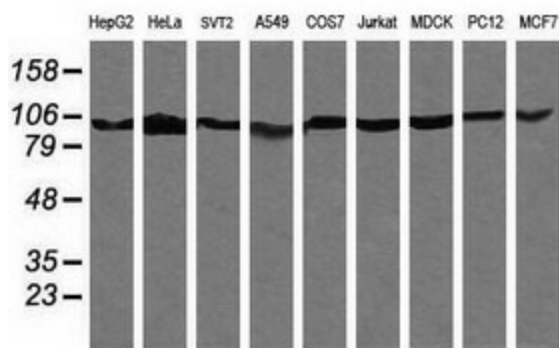
Druggable Genome

**Protein Pathways:**

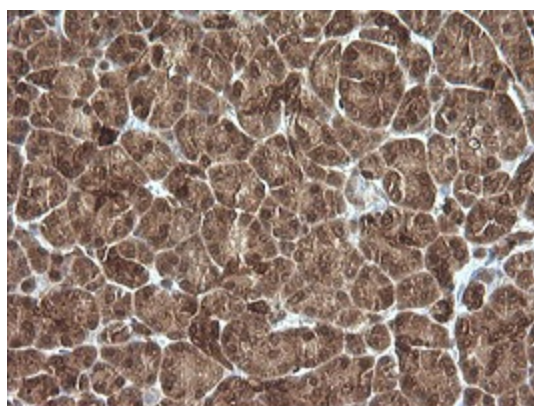
Acute myeloid leukemia, Apoptosis, B cell receptor signaling pathway, Chemokine signaling pathway, Chronic myeloid leukemia, Colorectal cancer, Endometrial cancer, ErbB signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, Glioma, Insulin signaling pathway, 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:**


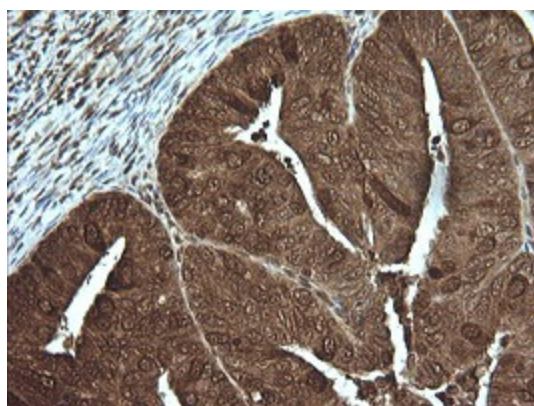
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PIK3R5 ([RC222249], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PIK3R5. Positive lysates [LY402310] (100ug) and [LC402310] (20ug) can be purchased separately from OriGene.



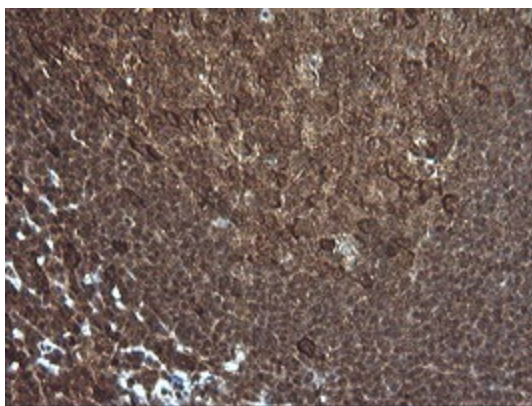
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-PIK3R5 monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human).



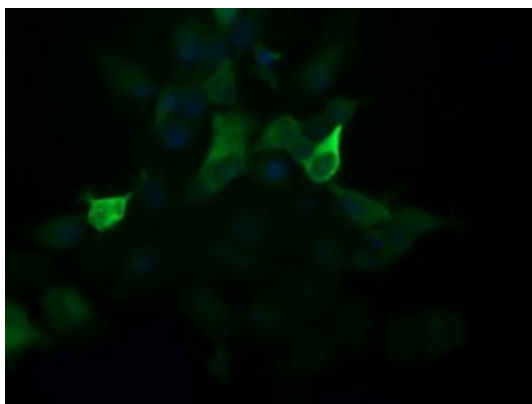
Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-PIK3R5 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, TA505815)



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-PIK3R5 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, TA505815)



Immunohistochemical staining of paraffin-embedded Human tonsil within the normal limits using anti-PIK3R5 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, TA505815)



Anti-PIK3R5 mouse monoclonal antibody (TA505815) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY PIK3R5 ([RC222249]).