

#### OriGene Technologies, Inc.

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## Product datasheet for TA505257

# PI 3 Kinase catalytic subunit gamma (PIK3CG) Mouse Monoclonal Antibody [Clone ID: OTI6G5]

### **Product data:**

Product Type:	Primary Antibodies	
Clone Name:	OTI6G5	
Applications:	IF, IHC, WB	
Recommended Dilution:	WB 1:200~2000, IHC 1:150, IF 1:100	
Reactivity:	Human, Mouse, Rat	
Host:	Mouse	
lsotype:	lgG1	
Clonality:	Monoclonal	
Immunogen:	Full length human recombinant protein of human PIK3CG(NP_002640) 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:	126.3 kDa	
Gene Name:	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma	
Database Link:	<u>NP_002640</u> <u>Entrez Gene 30955 MouseEntrez Gene 298947 RatEntrez Gene 5294 Human</u> <u>P48736</u>	



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	PI 3 Kinase catalytic subunit gamma (PIK3CG) Mouse Monoclonal Antibody [Clone ID: OTI6G5] – TA505257
<b>Background:</b> This gene encodes a protein that belongs to the pi3/pi4-kinase family of protein product is an enzyme that phosphorylates phosphoinositides on the 3-hydroxy inositol ring. It is an important modulator of extracellular signals, including the cadherin-mediated cell-cell adhesion, which plays an important role in mainter structural and functional integrity of epithelia. In addition to its role in promoti adherens junctions, the protein is thought to play a pivotal role in the regulation cytotoxicity in NK cells. The gene is located in a commonly deleted segment of previously identified in myeloid leukemias. [provided by RefSeq, Jul 2008]	
Synonyms:	p110gamma; p120-PI3K; PI3CG; PI3K; PI3Kgamma; PIK3
Protein Families	Druggable Genome, ES Cell Differentiation/IPS
Protein Pathway	s: 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

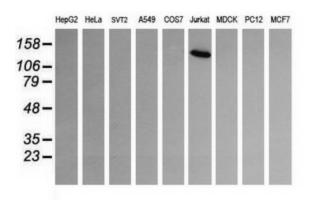
### **Product images:**

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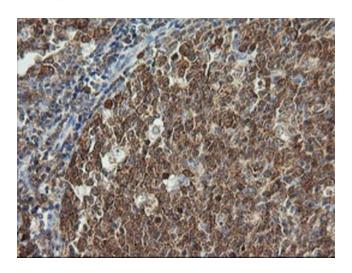
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PIK3CG ([RC207790], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PIK3CG. Positive lysates [LY419184] (100ug) and [LC419184] (20ug) can be purchased separately from OriGene.

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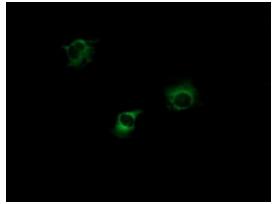




Western blot analysis of extracts (35ug) from 9 different cell lines by usin g anti-PIK3CG monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human).



Immunohistochemical staining of paraffinembedded Human tonsil within the normal limits using anti-PIK3CG mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Anti-PIK3CG mouse monoclonal antibody (TA505257) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY PIK3CG ([RC207790]).

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