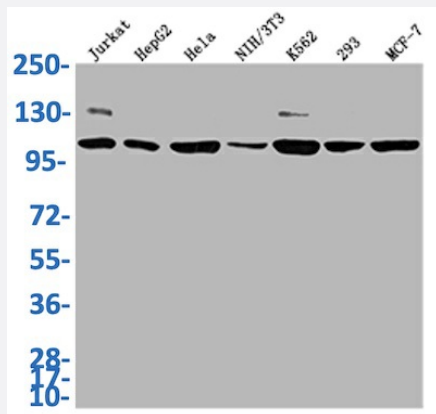


RecomAb™

PIK3CA recombinant monoclonal antibody, clone 10E5

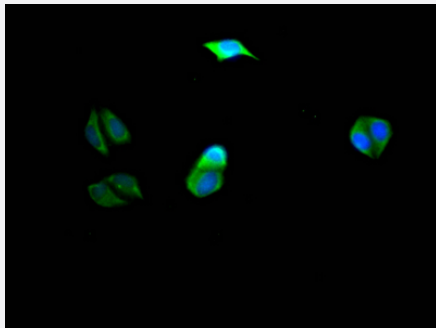
Catalog # RAB04031 Size 100 uL

Applications



Western Blot

Western Blot analysis of Lane 1: Jurkat whole cell lysate; Lane 2: HepG2 whole cell lysate; Lane 3: HeLa whole cell lysate; Lane 4: NIH/3T3 whole cell lysate; Lane 5: K562 whole cell lysate; Lane 6: 293 whole cell lysate; Lane 7: MCF-7 whole cell lysate.



Immunofluorescence

Immunofluorescence staining of HeLa Cells with PIK3CA recombinant monoclonal antibody, clone 10E5 at 1:50, counter-stained with DAPI.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human and mouse PIK3CA.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein corresponding to full length human PIK3CA.
Reactivity	Human, Mouse
Form	Liquid

Purification	Affinity-chromatography
Isotype	IgG
Recommend Usage	ELISA Immunofluorescence(1:20-1:200) Western Blot (1:500-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150mM NaCl, 50% glycerol and 0.02% sodium azide)
Storage Instruction	store at -20 °C or -80 °C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

Western Blot analysis of Lane 1: Jurkat whole cell lysate; Lane 2: HepG2 whole cell lysate; Lane 3: Hela whole cell lysate; Lane 4: NIH/3T3 whole cell lysate; Lane 5: K562 whole cell lysate; Lane 6: 293 whole cell lysate; Lane 7: MCF-7 whole cell lysate.

- Immunofluorescence

Immunofluorescence staining of Hela Cells with PIK3CA recombinant monoclonal antibody, clone 10E5 at 1:50, counter-stained with DAPI.

- Enzyme-linked Immunoabsorbent Assay

Gene Info — PIK3CA

Entrez GeneID	5290
Protein Accession#	P42336
Gene Name	PIK3CA
Gene Alias	MGC142161, MGC142163, PI3K, p110-alpha
Gene Description	phosphoinositide-3-kinase, catalytic, alpha polypeptide
Omim ID	114480 114500 171834 604370
Gene Ontology	Hyperlink

Gene Summary

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]

Other Designations

PI3-kinase p110 subunit alpha|PtdIns-3-kinase p110|phosphatidylinositol 3-kinase, catalytic, 110-KD, alpha|phosphatidylinositol 3-kinase, catalytic, alpha polypeptide|phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit, alpha isoform

Pathway

- [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](#)
- [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](#)

Disease

- [Adenocarcinoma](#)
- [Adenoma](#)
- [Adenomatous Polyposis Coli](#)
- [Alzheimer disease](#)
- [Astrocytoma](#)
- [Barrett Esophagus](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Carcinoma in Situ](#)

- [Cardiovascular Diseases](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colonic Polyps](#)
- [Colorectal Neoplasms](#)
- [Common Bile Duct Neoplasms](#)
- [Cystadenocarcinoma](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Drug Toxicity](#)
- [Edema](#)
- [Endometrial Neoplasms](#)
- [Endometriosis](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Hepatitis C](#)
- [HIV Infections](#)
- [Hypercholesterolemia](#)
- [Liver Neoplasms](#)
- [Lung Neoplasms](#)
- [Lymphatic Metastasis](#)
- [Metabolic Syndrome X](#)
- [Microsatellite Instability](#)
- [Nasopharyngeal Neoplasms](#)
- [Necrosis](#)

- [Neoplasm Invasiveness](#)
- [Neoplasm Metastasis](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Precursor T-Cell Lymphoblastic Leukemia-Lymphoma](#)
- [Prostatic Neoplasms](#)
- [Psychiatric Status Rating Scales](#)
- [Rectal Neoplasms](#)
- [Recurrence](#)
- [Retinal Neoplasms](#)
- [Retinoblastoma](#)
- [Schizophrenia](#)
- [Stomach Neoplasms](#)
- [Thyroid Neoplasms](#)
- [Uterine Cervical Neoplasms](#)