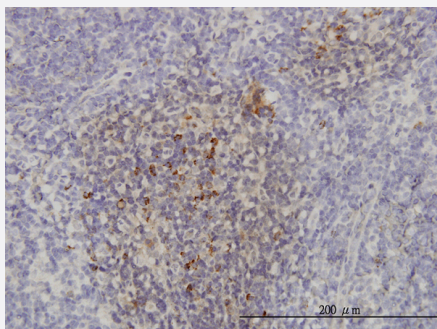


PIK3CB monoclonal antibody (M01), clone 4H2

Catalog # H00005291-M01

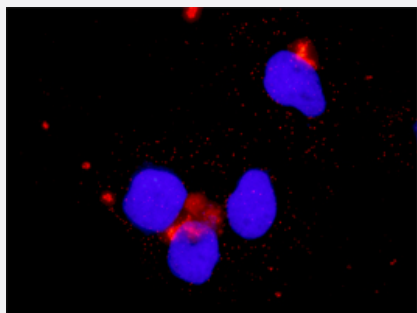
Size 100 ug

Applications



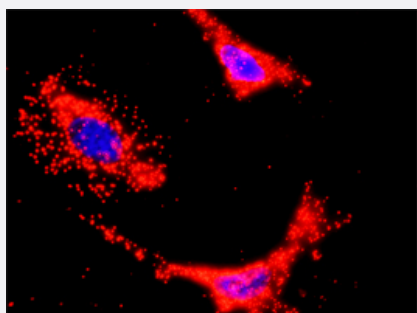
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to PIK3CB on formalin-fixed paraffin-embedded human lymph node. [antibody concentration 3 ug/ml]



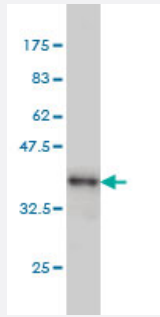
In situ Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between HCK and PIK3CB. Huh7 cells were stained with anti-HCK rabbit purified polyclonal 1:1200 and anti-PIK3CB mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



In situ Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between HCK and PIK3CB. HeLa cells were stained with anti-HCK rabbit purified polyclonal 1:1200 and anti-PIK3CB mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



Western Blot detection against Immunogen (37.84 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant PIK3CB.
Immunogen	PIK3CB (NP_006210, 147 a.a. ~ 256 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	EFRRKMRKFSEEKILSLVGLSWMDWLKQTYPEHEPSIPENLEDKLYGGKLIVAVHFENCQDVFS FQVSPNMNPIKVNELAIQKRLTIHGKEDEVSPYDVLQVSGRVEY
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (88); Rat (87)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to PIK3CB on formalin-fixed paraffin-embedded human lymph node. [antibody concentration 3 ug/ml]

[Protocol Download](#)

- ELISA

- *In situ* Proximity Ligation Assay (Cell)

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- *In situ* Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between HCK and PIK3CB. HeLa cells were stained with anti-HCK rabbit purified polyclonal 1:1200 and anti-PIK3CB mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

Gene Info — PIK3CB

Entrez GeneID [5291](#)

GeneBank Accession# [NM_006219](#)

Protein Accession# [NP_006210](#)

Gene Name PIK3CB

Gene Alias DKFZp779K1237, MGC133043, PI3K, PI3KCB, PI3Kbeta, PIK3C1, p110-BETA

Gene Description phosphoinositide-3-kinase, catalytic, beta polypeptide

Omim ID [602925](#)

Gene Ontology [Hyperlink](#)

Gene Summary Phosphoinositide 3-kinases (PI3Ks) phosphorylate the 3-prime OH position of the inositol ring of inositol lipids. They have been implicated as participants in signaling pathways regulating cell growth by virtue of their activation in response to various mitogenic stimuli. PI3Ks are composed of a 110-kD catalytic subunit, such as PIK3CB, and an 85-kD adaptor subunit (Hu et al., 1993 [PubMed 8246984]).[supplied by OMIM]

Other Designations PI3-kinase p110 subunit beta|PtdIns-3-kinase p110|phosphatidylinositol 3-kinase, catalytic, beta polypeptide

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](#)
- [Barrett Esophagus](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Drug Toxicity](#)
- [Edema](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Glucose Intolerance](#)
- [Hepatitis C](#)
- [HIV Infections](#)
- [Hypercholesterolemia](#)
- [Insulin Resistance](#)

- [Obesity](#)
- [Psychiatric Status Rating Scales](#)
- [Schizophrenia](#)