

PIK3C2B Antibody (monoclonal) (M02)**Mouse monoclonal antibody raised against a partial recombinant PIK3C2B.****Catalog # AT3309a****Specification**

PIK3C2B Antibody (monoclonal) (M02) - Product Information

Application	WB, IF, E
Primary Accession	O00750
Other Accession	NM_002646
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	184768

PIK3C2B Antibody (monoclonal) (M02) - Additional Information**Gene ID** 5287**Other Names**

Phosphatidylinositol 4-phosphate 3-kinase C2 domain-containing subunit beta, PI3K-C2-beta, PtdIns-3-kinase C2 subunit beta, C2-PI3K, Phosphoinositide 3-kinase-C2-beta, PIK3C2B

Target/Specificity

PIK3C2B (NP_002637, 1 a.a. ~ 110 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

IF~~1:50~200

E~~N/A

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

PIK3C2B Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

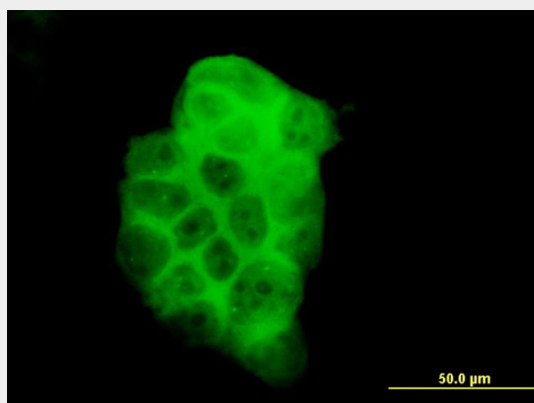
PIK3C2B Antibody (monoclonal) (M02) - Protocols

Provided below are standard protocols that you may find useful for product applications.

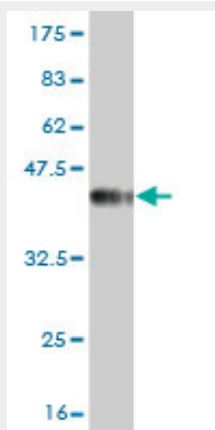
- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

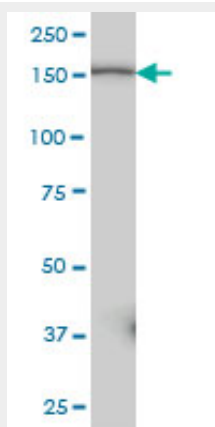
PIK3C2B Antibody (monoclonal) (M02) - Images



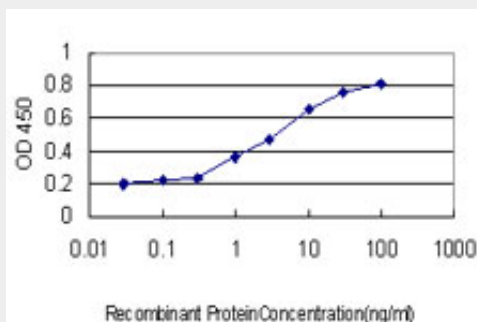
Immunofluorescence of monoclonal antibody to PIK3C2B on A-431 cell. [antibody concentration 10 ug/ml]



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 KDa) .



PIK3C2B monoclonal antibody (M02), clone 3E5 Western Blot analysis of PIK3C2B expression in A-431 (Cat # AT3309a)



Detection limit for recombinant GST tagged PIK3C2B is approximately 1ng/ml as a capture antibody.

PIK3C2B Antibody (monoclonal) (M02) - Background

The protein encoded by this gene belongs to the phosphoinositide 3-kinase (PI3K) family. PI3-kinases play roles in signaling pathways involved in cell proliferation, oncogenic transformation, cell survival, cell migration, and intracellular protein trafficking. This protein contains a lipid kinase catalytic domain as well as a C-terminal C2 domain, a characteristic of class II PI3-kinases. C2 domains act as calcium-dependent phospholipid binding motifs that mediate translocation of proteins to membranes, and may also mediate protein-protein interactions. The PI3-kinase activity of this protein is sensitive to low nanomolar levels of the inhibitor wortmanin. The C2 domain of this protein was shown to bind phospholipids but not Ca^{2+} , which suggests that this enzyme may function in a calcium-independent manner.

PIK3C2B Antibody (monoclonal) (M02) - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolidinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086. Physiogenomic analysis of statin-treated patients: domain-specific counter effects within the ACACB gene on low-density lipoprotein cholesterol? Ruafo G, et al. Pharmacogenomics, 2010 Jul. PMID 20602615. Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614. Pooled analysis of phosphatidylinositol 3-kinase pathway variants and risk of prostate cancer. Koutros S, et al. Cancer Res, 2010 Mar 15. PMID 20197460. Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.

PIK3C2B Antibody (monoclonal) (M02) - Citations

- [Association of Factor V Secretion with Protein Kinase B Signaling in Platelets from Horses with Atypical Equine Thrombasthenia.](#)