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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

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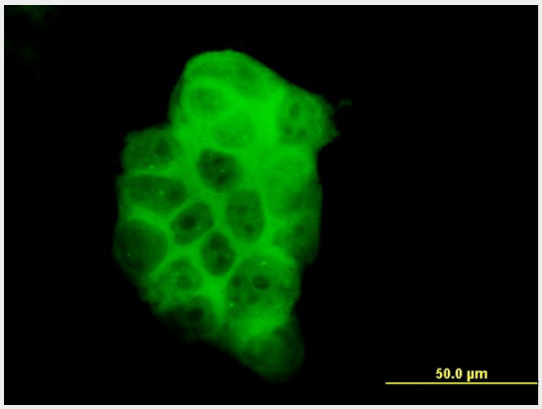
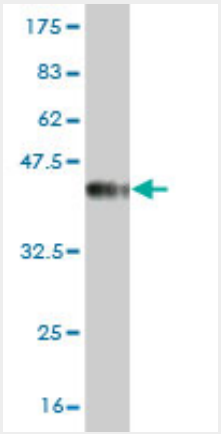
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

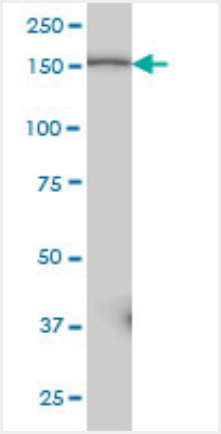
PIK3C2B Antibody (monoclonal) (M02) - Images



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) .



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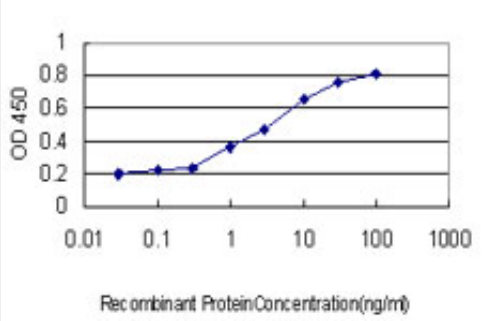
PIK3C2B monoclonal antibody (M02), clone 3E5 Western Blot analysis of PIK3C2B expression in A-431 ((Cat # AT3309a)



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 Ca2+, 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 Thiazolinedinedione-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? Rua?o 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.