

AKT2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant AKT2. Catalog # AT1100a

Specification

AKT2 Antibody (monoclonal) (M01) - Product Information

Application Primary Accession Other Accession Reactivity Host Clonality Isotype Calculated MW

WB, IF, E <u>P31751</u> <u>M95936</u> Human mouse Monoclonal IgG1 kappa 55769

AKT2 Antibody (monoclonal) (M01) - Additional Information

Gene ID 208

Other Names RAC-beta serine/threonine-protein kinase, Protein kinase Akt-2, Protein kinase B beta, PKB beta, RAC-PK-beta, AKT2

Target/Specificity AKT2 (AAA58364, 100 a.a. ~ 189 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 AKT2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

AKT2 Antibody (monoclonal) (M01) - Protocols

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

<u>Western Blot</u>



- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

AKT2 Antibody (monoclonal) (M01) - Images



Immunofluorescence of monoclonal antibody to AKT2 on HeLa cell. [antibody concentration 10 ug/ml]



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (35.53 KDa).

250 -150 -100 -75 -50 -37 -25 -



AKT2 monoclonal antibody (M01), clone 1B3 Western Blot analysis of AKT2 expression in Jurkat ((Cat # AT1100a)



Detection limit for recombinant GST tagged AKT2 is approximately 0.3ng/ml as a capture antibody.

AKT2 Antibody (monoclonal) (M01) - Background

This gene is a putative oncogene encoding a protein belonging to a subfamily of serine/threonine kinases containing SH2-like (Src homology 2-like) domains. The gene was shown to be amplified and overexpressed in 2 of 8 ovarian carcinoma cell lines and 2 of 15 primary ovarian tumors. Overexpression contributes to the malignant phenotype of a subset of human ductal pancreatic cancers. The encoded protein is a general protein kinase capable of phophorylating several known proteins.

AKT2 Antibody (monoclonal) (M01) - 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.PI3K/PTEN/AKT/mTOR pathway genetic variation predicts toxicity and distant progression in lung cancer patients receiving platinum-based chemotherapy. Pu X, et al. Lung Cancer, 2010 May 4. PMID 20447721.MicroRNA-184 inhibits neuroblastoma cell survival through targeting the serine/threonine kinase AKT2. Foley NH, et al. Mol Cancer, 2010 Apr 21. PMID 20409325.Key signalling nodes in mammary gland development and cancer. Signalling downstream of PI3 kinase in mammary epithelium: a play in 3 Akts. Wickenden JA, et al. Breast Cancer Res, 2010. PMID 20398329.