10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

AKT2 Antibody (monoclonal) (M01)

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

Product Information

Application	WB, IF, E
Primary Accession	P31751
Other Accession	M95936
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 kappa
Clone Names	1B3
Calculated MW	55769

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.

Background

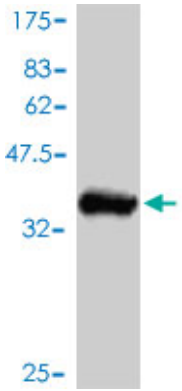
This gene is a putative oncogene encoding a protein belonging to a subfamily of serine/threonine kinases containing SH2-like (Src homology 2-like) domains. The gene was shown to be amplified and overexpressed in 2 of 8 ovarian carcinoma cell lines and 2 of 15 primary ovarian tumors. Overexpression contributes 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.

References

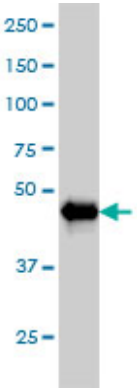
Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes

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.

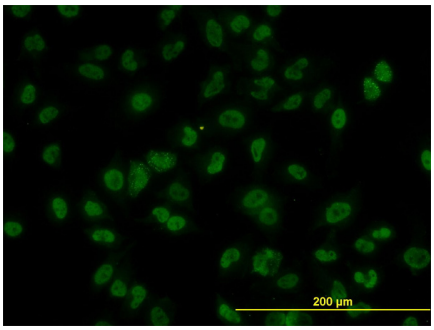
Images



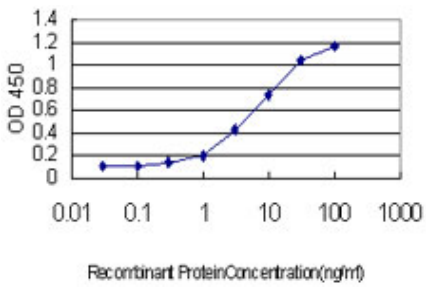
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (35.53 KDa) .



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



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



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.