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AKT2 Antibody (monoclonal) (M05)

Mouse monoclonal antibody raised against a partial recombinant AKT2.
Catalog # AT1103a

Product Information

Application	WB, IF, E
Primary Accession	P31751
Other Accession	M95936
Reactivity	Human, Mouse, Rat
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	1F3
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) (M05) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

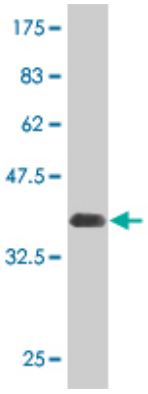
This gene is a putative oncogene encoding a protein belonging to a subfamily of serine/threonine kinases containing SH2-like (Src homology 2-like) domains. The gene was shown to be amplified and overexpressed in 2 of 8 ovarian carcinoma cell lines and 2 of 15 primary ovarian tumors. Overexpression contributes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

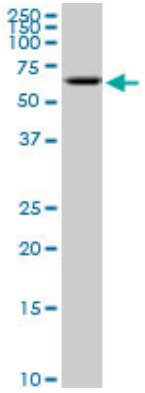
Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes

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.

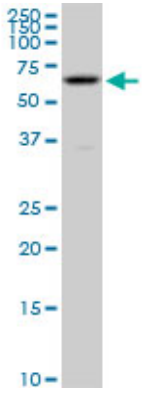
Images



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

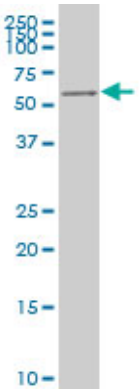


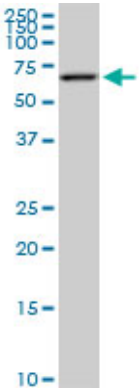
AKT2 monoclonal antibody (M05), clone 1F3. Western Blot analysis of AKT2 expression in PC-12((Cat # AT1103a)



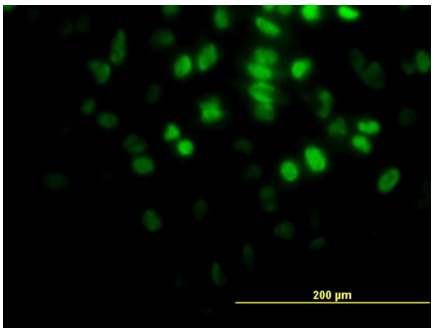
AKT2 monoclonal antibody (M05), clone 1F3. Western Blot analysis of AKT2 expression in Raw 264.7((Cat # AT1103a)

AKT2 monoclonal antibody (M05), clone 1F3 Western Blot analysis of AKT2 expression in Jurkat ((Cat # AT1103a)

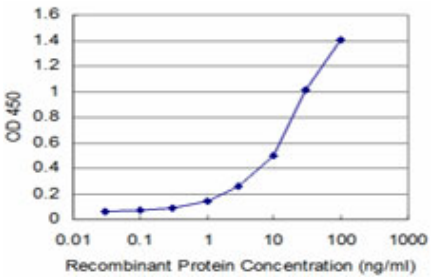




AKT2 monoclonal antibody (M05), clone 1F3. Western Blot analysis of AKT2 expression in NIH/3T3((Cat # AT1103a)



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



Detection limit for recombinant GST tagged AKT2 is approximately 1ng/ml as a capture antibody.

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