

## **AKT2 Antibody (monoclonal) (M05)**

Mouse monoclonal antibody raised against a partial recombinant AKT2.

Catalog # AT1103a

### **Specification**

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#### **AKT2 Antibody (monoclonal) (M05) - Product Information**

Application	IF, WB, E
Primary Accession	<a href="#">P31751</a>
Other Accession	<a href="#">M95936</a>
Reactivity	Human, Mouse, Rat
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	55769

#### **AKT2 Antibody (monoclonal) (M05) - 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

##### **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.

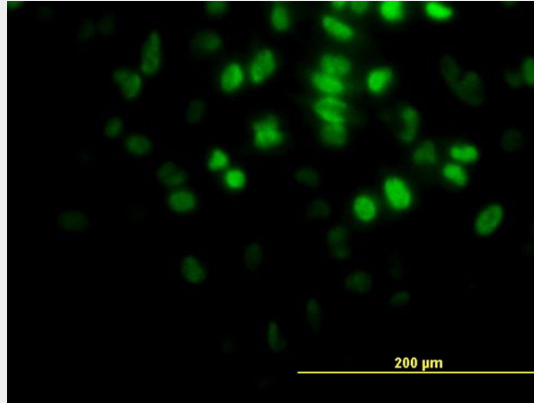
#### **AKT2 Antibody (monoclonal) (M05) - Protocols**

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

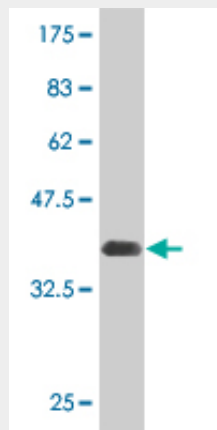
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

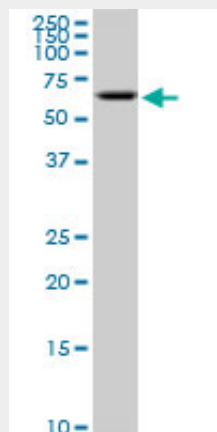
### AKT2 Antibody (monoclonal) (M05) - Images



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

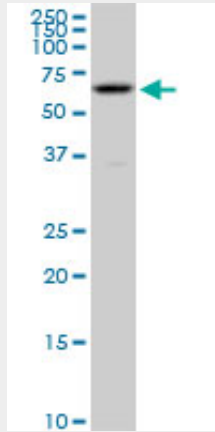


Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (35.53 KDa) .

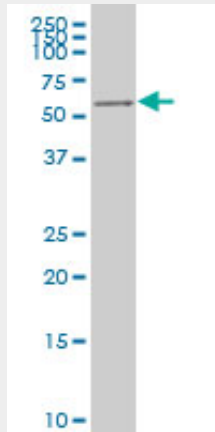


AKT2 monoclonal antibody (M05), clone 1F3. Western Blot analysis of AKT2 expression in

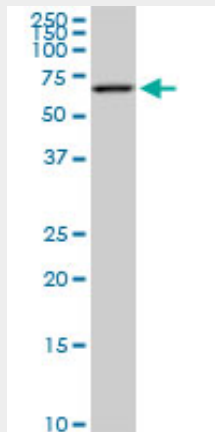
PC-12((Cat # AT1103a )



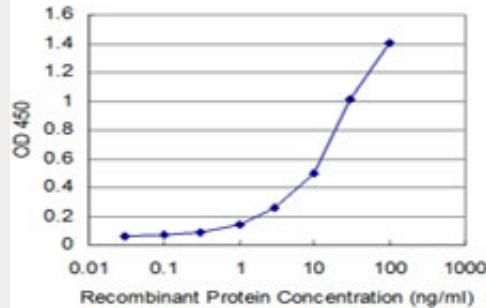
AKT2 monoclonal antibody (M05), clone 1F3. Western Blot analysis of AKT2 expression in Raw 264.7((Cat # AT1103a )



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 )



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

### **AKT2 Antibody (monoclonal) (M05) - 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 phosphorylating several known proteins.

### **AKT2 Antibody (monoclonal) (M05) - 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. 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.