

AKT3 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant AKT3.

Catalog # AT1104a

Specification

AKT3 Antibody (monoclonal) (M02) - Product Information

Application	IF, WB, E
Primary Accession	O9Y243
Other Accession	AF124141
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	55775

AKT3 Antibody (monoclonal) (M02) - Additional Information**Gene ID** 10000**Other Names**

RAC-gamma serine/threonine-protein kinase, Protein kinase Akt-3, Protein kinase B gamma, PKB gamma, RAC-PK-gamma, STK-2, AKT3, PKBG

Target/Specificity

AKT3 (AAD29089, 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

AKT3 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

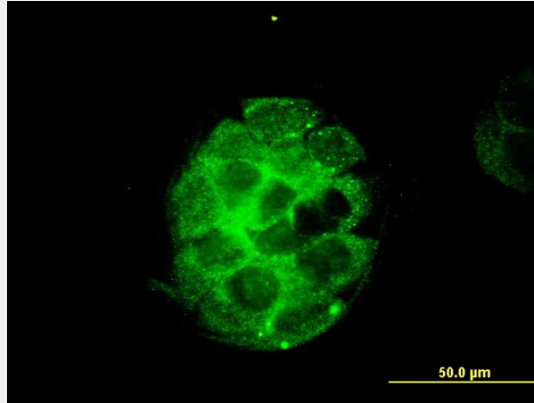
AKT3 Antibody (monoclonal) (M02) - Protocols

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

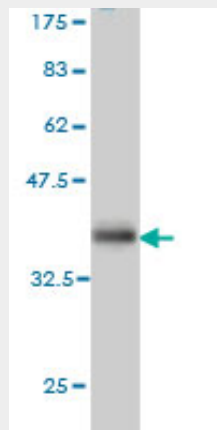
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

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

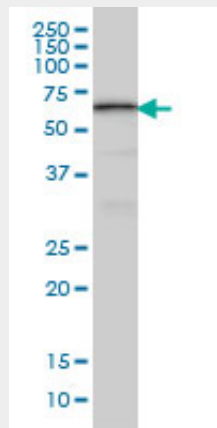
AKT3 Antibody (monoclonal) (M02) - Images



Immunofluorescence of monoclonal antibody to AKT3 on MCF-7 cell . [antibody concentration 10 ug/ml]

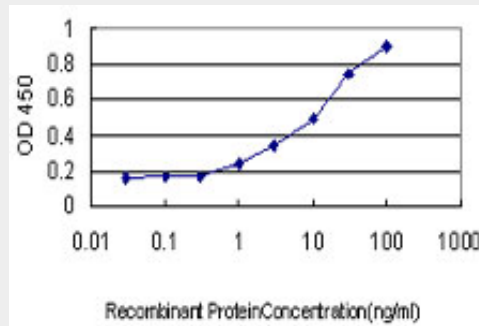


Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (35.53 KDa) .



AKT3 monoclonal antibody (M02), clone 6E10 Western Blot analysis of AKT3 expression in MCF-7 (

(Cat # AT1104a)



Detection limit for recombinant GST tagged AKT3 is approximately 1ng/ml as a capture antibody.

AKT3 Antibody (monoclonal) (M02) - Background

The protein encoded by this gene is a member of the AKT, also called PKB, serine/threonine protein kinase family. AKT kinases are known to be regulators of cell signaling in response to insulin and growth factors. They are involved in a wide variety of biological processes including cell proliferation, differentiation, apoptosis, tumorigenesis, as well as glycogen synthesis and glucose uptake. This kinase has been shown to be stimulated by platelet-derived growth factor (PDGF), insulin, and insulin-like growth factor 1 (IGF1). Alternatively splice transcript variants encoding distinct isoforms have been described.

AKT3 Antibody (monoclonal) (M02) - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-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. 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. Energy balance, the PI3K-AKT-mTOR pathway genes, and the risk of bladder cancer. Lin J, et al. *Cancer Prev Res (Phila)*, 2010 Apr. PMID 20354165. Mutational and immunohistochemical study of the PI3K/Akt pathway in papillary thyroid carcinoma in Greece. Sozopoulos E, et al. *Endocr Pathol*, 2010 Jun. PMID 20186503. Akt2 and Akt3 play a pivotal role in malignant gliomas. Mure H, et al. *Neuro Oncol*, 2010 Mar. PMID 20167810.