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AKT3 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant AKT3.
Catalog # AT1104a

Product Information

Application	WB, IF, E
Primary Accession	Q9Y243
Other Accession	AF124141
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	6E11
Calculated MW	55775

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

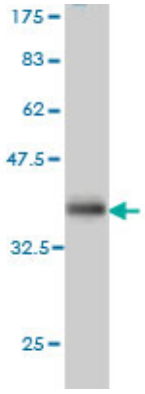
Background

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.

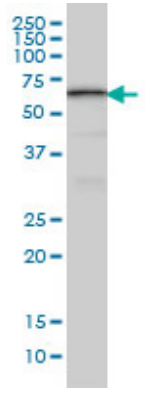
References

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.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.

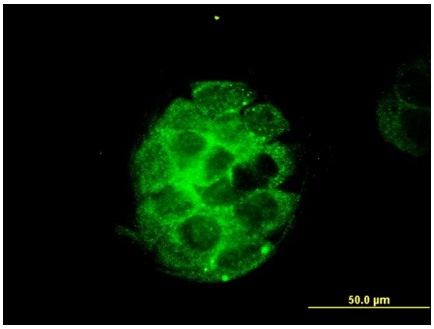
Images



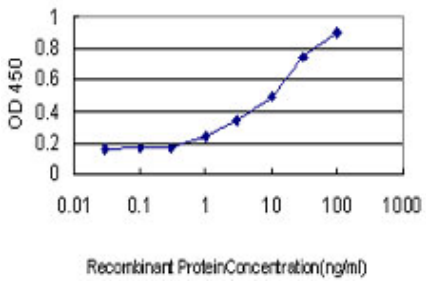
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (35.53 KDa) .



AKT3 monoclonal antibody (M02), clone 6E10 Western Blot analysis of AKT3 expression in MCF-7 ((Cat # AT1104a)



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



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