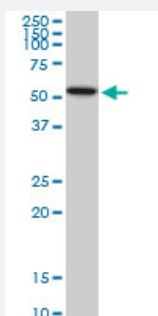


AKT1 monoclonal antibody (M09), clone 6F11

Catalog # H00000207-M09

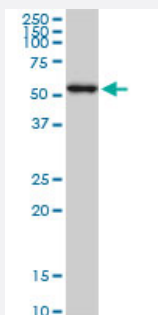
Size 100 ug

Applications



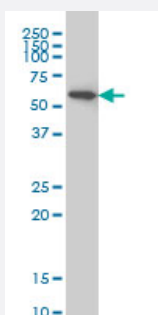
Western Blot (Cell lysate)

AKT1 monoclonal antibody (M09), clone 6F11. Western Blot analysis of AKT1 expression in NIH/3T3(Cat # L018V1).



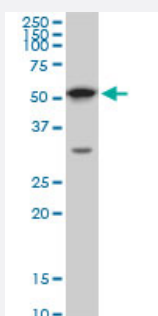
Western Blot (Cell lysate)

AKT1 monoclonal antibody (M09), clone 6F11. Western Blot analysis of AKT1 expression in PC-12(Cat # L012V1).



Western Blot (Cell lysate)

AKT1 monoclonal antibody (M09), clone 6F11 Western Blot analysis of AKT1 expression in Jurkat (Cat # L017V1).

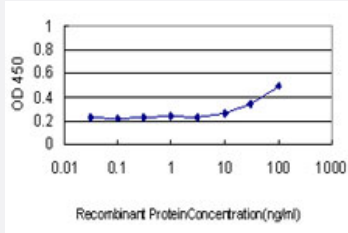


Western Blot (Cell lysate)

AKT1 monoclonal antibody (M09), clone 6F11. Western Blot analysis of AKT1 expression in Raw 264.7(Cat # L024V1).

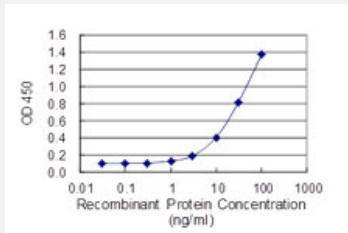
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged AKT1 is approximately 10ng/ml as a capture antibody.



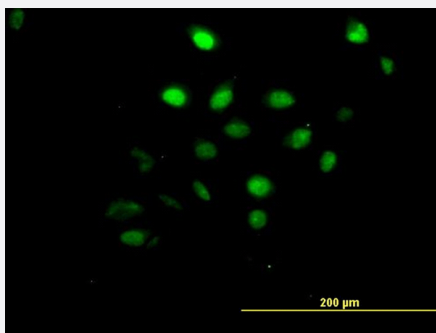
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged AKT1 is 0.3 ng/ml as a capture antibody.

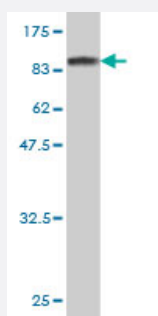


Immunofluorescence

Immunofluorescence of monoclonal antibody to AKT1 on HeLa cell. [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (78.54 KDa) .



Specification

Product Description

Mouse monoclonal antibody raised against a full length recombinant AKT1.

Immunogen

AKT1 (AAH00479.1, 1 a.a. ~ 480 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence	MSDVANKEGWLHKRGEYIKTWRPRYFLLKNDGTFIGYKERPQDVDQREAPLNNFSVAQCQLMKT ERPRPNTFIIRCLQWTTVIERTLHVETPEEREETWTAIQTVADGLKKQEEEEEMDFRSGSPSDNSGA EEMEVSLAKPKHRVTMNEFEYLKLLGKGTFGKVILVKEKATGRYYAMKILKKEVVAKDEVAHTLTE NRVLQNSRHPFLTALKYSFQTHDRLCFVMEYANGGELFFHLSRERVFSEDRARFYGAIVSALDY LHSEKNVVYRDLKLENLMLDKDGHKITDFGLCKEGIKDGATMKTFCGTPEYLAPEVLEDNDYGRA VDWWGLGVVMYEMMCGRLPFYNQDHEKLFELIMEEIRFPRTLGPPEAKSLLSGLLKDKPKQRLG GGSEDAKEIMQHRFFAGVWQHVVYEKKLSPPFKPQVTSETDTRYFDEEFTAQMITITPPDQDDSM ECVDSERRPHFPQFSYSASGTA
Host	Mouse
Reactivity	Human, Mouse, Rat
Interspecies Antigen Sequence	Mouse (98); Rat (98)
Isotype	IgG2a Lambda
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (78.54 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

AKT1 monoclonal antibody (M09), clone 6F11. Western Blot analysis of AKT1 expression in NIH/3T3(Cat # L018V1).

[Protocol Download](#)

- Western Blot (Cell lysate)

AKT1 monoclonal antibody (M09), clone 6F11. Western Blot analysis of AKT1 expression in PC-12(Cat # L012V1).

[Protocol Download](#)

- Western Blot (Cell lysate)

AKT1 monoclonal antibody (M09), clone 6F11 Western Blot analysis of AKT1 expression in Jurkat (Cat # L017V1).

[Protocol Download](#)

- Western Blot (Cell lysate)

AKT1 monoclonal antibody (M09), clone 6F11. Western Blot analysis of AKT1 expression in Raw 264.7(Cat # L024V1).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged AKT1 is approximately 10ng/ml as a capture antibody.

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged AKT1 is 0.3 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to AKT1 on HeLa cell. [antibody concentration 10 ug/ml]

Gene Info — AKT1

Entrez GeneID [207](#)

GeneBank Accession# [BC000479](#)

Protein Accession# [AAH00479.1](#)

Gene Name AKT1

Gene Alias AKT, MGC99656, PKB, PKB-ALPHA, PRKBA, RAC, RAC-ALPHA

Gene Description v-akt murine thymoma viral oncogene homolog 1

Omim ID [164730](#) [181500](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The serine-threonine protein kinase encoded by the AKT1 gene is catalytically inactive in serum-starved primary and immortalized fibroblasts. AKT1 and the related AKT2 are activated by platelet-derived growth factor. The activation is rapid and specific, and it is abrogated by mutations in the pleckstrin homology domain of AKT1. It was shown that the activation occurs through phosphatidylinositol 3-kinase. In the developing nervous system AKT is a critical mediator of growth factor-induced neuronal survival. Survival factors can suppress apoptosis in a transcription-independent manner by activating the serine/threonine kinase AKT1, which then phosphorylates and inactivates components of the apoptotic machinery. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq]

Other Designations

RAC-alpha serine/threonine-protein kinase|murine thymoma viral (v-akt) oncogene homolog-1|protein kinase B|rac protein kinase alpha

Pathway

- [Acute myeloid leukemia](#)
- [Adipocytokine signaling pathway](#)
- [Apoptosis](#)
- [B cell receptor signaling pathway](#)
- [Chemokine signaling pathway](#)
- [Chronic myeloid leukemia](#)
- [Colorectal cancer](#)
- [Endometrial cancer](#)
- [ErbB signaling pathway](#)
- [Fc epsilon RI signaling pathway](#)
- [Fc gamma R-mediated phagocytosis](#)
- [Focal adhesion](#)
- [Glioma](#)
- [Insulin signaling pathway](#)
- [Jak-STAT signaling pathway](#)
- [MAPK signaling pathway](#)
- [Melanoma](#)
- [mTOR signaling pathway](#)
- [Neurotrophin signaling pathway](#)
- [Non-small cell lung cancer](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)

- [Prostate cancer](#)
- [Renal cell carcinoma](#)
- [Small cell lung cancer](#)
- [T cell receptor signaling pathway](#)
- [Tight junction](#)
- [Toll-like receptor signaling pathway](#)
- [VEGF signaling pathway](#)

Disease

- [Adenocarcinoma](#)
- [Alzheimer disease](#)
- [Amphetamine-Related Disorders](#)
- [Atherosclerosis](#)
- [Basal Ganglia Diseases](#)
- [Bipolar Disorder](#)
- [Breast Neoplasms](#)
- [Calcinosis](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cognition](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Coronary Artery Disease](#)
- [Depressive Disorder](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)

- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Dominance](#)
- [Drug Toxicity](#)
- [Dyskinesia](#)
- [Edema](#)
- [Endometrial Neoplasms](#)
- [Endometriosis](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [HIV Infections](#)
- [Leukemia](#)
- [Liver Cirrhosis](#)
- [Lung Neoplasms](#)
- [Memory](#)
- [Metabolic Syndrome X](#)
- [Necrosis](#)
- [Neoplasm Metastasis](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Neuropsychological Tests](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Ovarian Failure](#)
- [Ovarian Neoplasms](#)
- [Parkinson disease](#)

- [Polycystic Ovary Syndrome](#)
- [Precursor T-Cell Lymphoblastic Leukemia-Lymphoma](#)
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- [Psychiatric Status Rating Scales](#)
- [Psychoses](#)
- [Psychotic Disorders](#)
- [Puberty](#)
- [Pulmonary Disease](#)
- [Rectal Neoplasms](#)
- [Retinal Neoplasms](#)
- [Retinoblastoma](#)
- [Schizophrenia](#)
- [Space Perception](#)
- [Thrombophilia](#)
- [Thyroid Neoplasms](#)
- [Tobacco Use Disorder](#)
- [Tuberculosis](#)
- [Urinary Bladder Neoplasms](#)
- [Verbal Learning](#)
- [Werner syndrome](#)