Product Name: AKT1 Mouse Monoclonal Antibody
Catalog #: AMM80803
For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	WB,ELISA
Reactivity	Human,Mouse,Monkey
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Purified antibody in PBS with 0.05% sodium azide.
Purification	Affinity Purification

Application

Dilution Ratio	WB 1:500-1:2000,ELISA 1:5000-1:20000
Molecular Weight	56kDa

Antigen Information

Gene Name	AKT1
Alternative Names	AKT; PKB; RAC; PRKBA; MGC99656; PKB-ALPHA; RAC-ALPHA; AKT1
Gene ID	207.0
SwissProt ID	P31749
Immunogen	Purified recombinant fragment of human AKT1 expressed in E. Coli.

Background

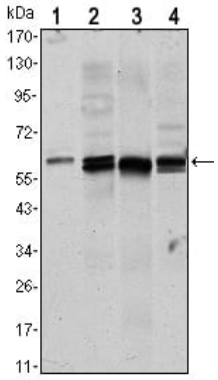
The serine-threonine protein kinase encoded by the AKT1 gene is catalytically inactive in serum-starved primary and immortalized fibroblasts. AKT1 and the related AKT2 are activated by platelet-derived growth factor. The activation is rapid and specific, and it is abrogated by mutations in the pleckstrin 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.

Research Area

Apoptosis,TGF-beta signaling pathway,PI3K-Akt signaling pathway,mTOR signaling pathway,MAPK signaling pathway,Jak-STAT signaling pathway

Image Data



Western blot analysis using AKT1 mouse mAb against NIH/3T3 (1) Hela (2)COS7 (3) and Jurkat (4) cell lysate.