AKT1 Mouse Monoclonal Antibody

E10-20434

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.

Catalog Number: E10-20434

Amount: 100µg/100µl

Clone Number: 3A3

Species: Mouse IgG1

MW: 56kDa

Aliases: AKT; PKB; RAC; PRKBA; MGC99656; PKB-ALPHA; RAC-ALPHA; AKT1

Entrez Gene: 207

Immunogen: Purified recombinant fragment of human PP32 expressed in E. Coli.

Storage: Store at 4 °C for 1 month. For long term storage, store at -20 °C.

Formulation: Ascitic fluid containing 0.03% sodium azide.

Species Reactivities: Human; Mouse; Monkey

Tested Applications: WB,ELISA.Not yet tested in other applications. Determining optimal working dilutions by titration test.

Application notes: WB 1/500 - 1/2000.ELISA. Propose dilution 1/10000.

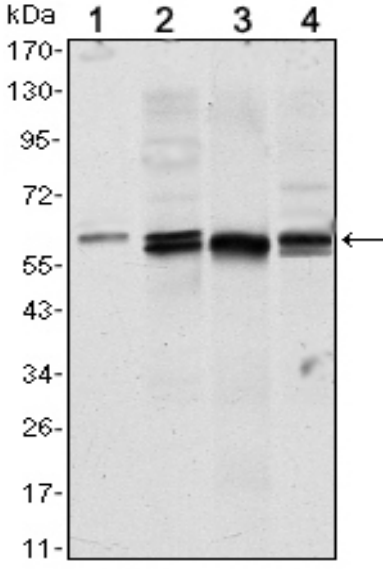

Figure 1. Western blot analysis using AKT1 mouse mAb against NIH/3T3 (1), Hela (2), COS7 (3) and Jurkat (4) cell lysate.

For Research Use Only