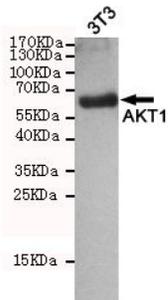




Akt1

Mouse monoclonal Antibody

#53522

Catalog Number: 53522**Amount:** 100µg/100µl**Swiss-Prot No. :** P31749**Gene name:** akt1**Gene id:** 54899**Clone Number:** 2D9-D2-H3**Form of Antibody:** Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol**Storage/Stability:** Store at -20°C/1 year**Immunogen:** Purified recombinant human Akt1 protein fragments expressed in E.coli**Purification:** affinity-chromatography**Specificity/Sensitivity:** This antibody detects endogenous levels of Akt1 and does not cross-react with Akt2 and related proteins**Reactivity:** Mouse, Transfected**Applications:** Predicted MW: 60kd WB: 1:2000

Western blot detection of AKT1 in 3T3 cell lysates using AKT1 mouse mAb (dilution 1:2000), with super ECL. Predicted band size: 60KDa. Observed band size: 60KDa.

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. Mutations in this gene have been associated with the Proteus syndrome. Multiple alternatively spliced transcript variants have been found for this gene.