

AKT1 monoclonal antibody

Catalog: MB22138

Host: Mouse

Reactivity: Human,Rat,Monkey

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.

Product:

Purified antibody in PBS with 0.05% sodium azide

Molecular Weight:

55.7kDa

Swiss-Prot:

P31749

Purification&Purity:

The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB:1/500 - 1/2000 IHC:1/200 - 1/1000 FC:1/200 - 1/400

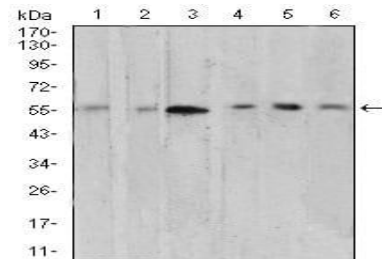
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

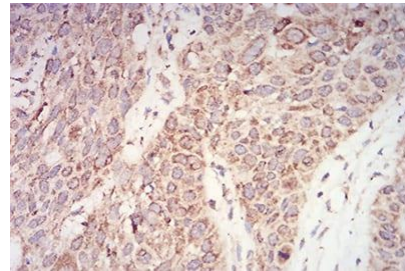
Isotype:

Mouse IgG1

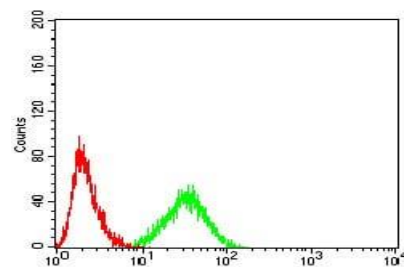
DATA:



Western blot analysis using AKT1 mouse mAb against A549 (1), MCF-7 (2), Hela (3), COS7 (4), C6 (5), and HL-60 (6) cell lysate.



Immunohistochemical analysis of paraffin-embedded human esophageal cancer tissues using AKT1 mouse mAb with DAB staining.



Flow cytometric analysis of HeLa cells using AKT1 mouse mAb (green) and negative control (red).

Note:

For research use only, not for use in diagnostic procedure.

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