



Category: Monoclonal Antibodies Cat. #: MAB-606020434

Product Name: Mouse Monoclonal Antibody to AKT1

Western Blotting

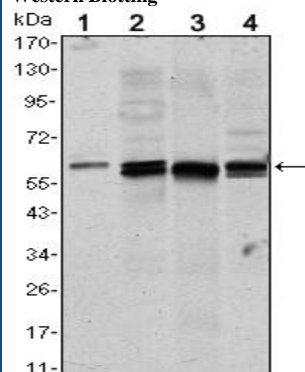


Figure 1: Western blot analysis using AKT1 mouse mAb against NIH/3T3 (1), HeLa (2), COS7 (3) and Jurkat (4) cell lysate.

Lot#:

Clone#: 3A3

Host and isotype: Mouse IgG1

Size: 0.1ml

MW: 56kDa

Aliases: AKT; PKB; RAC; PRKBA;

MGC99656; PKB-ALPHA; RAC-ALPHA; AKT1

Entrez Gene: 207

Species reactivity: Human; Mouse; Monkey

Description

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.

Immunogen

Purified recombinant fragment of human AKT1 expressed in E. Coli.

Applications

Western Blotting: 1/500 - 1/2000.

ELISA: Proposed dilution 1/10000.

Not yet tested in other applications.

Determining optimal working dilutions by titration test.

Formulation

Ascorbic acid containing 0.03% sodium azide.

Storage

Store at 4°C, for long term storage, store at -20°C.

Related product

References

1. J Cell Physiol. 2010 Oct;225(1):168-73.
2. Mol Cell Biol. 1995 Apr;15(4):2304-10.
3. EMBO J. 1997 Sep 1;16(17):5445-54.

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