

AKT1 Monoclonal Antibody

Description

Product type	Antibody
Code	BT-MCA3906
Host	Mouse
Isotype	Mouse IgG1
Size	100µL, 50µL
Immunogen	Purified recombinant fragment of human AKT1 expressed in E. Coli.
Mol wt	56kDa
Species reactivity	Human,Mouse,Monkey
Clonality	Monoclonal
Recommended application	WB
Concentration	N/A
Full name	N/A
Synonyms	AKT;PKB;RAC;PRKBA;MGC99656;PKB-ALPHA;RAC-ALPHA;AKT1

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

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.

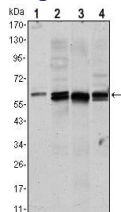
Recommended Dilution

WB: 1:500 - 1:2000

ELISA: 1:10000

Not yet tested in other applications.

Images



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

Storage

Store at 4°C short term. Aliquot and store at -20°C long term.