BT LAB
Bioassay Technology Laboratory

Optimize Your Research

Akt1 Monoclonal Antibody

Description

Product type	Primary Antibody
Code	BT-MCA0143
Host	Mouse
Isotype	IgG
Size	50ul, 100ul
Immunogen	Purified recombinant fragment of human Akt1 expressed in E. Coli.
Mol wt	N/A
Species reactivity	Human,Mouse,Monkey
Clonality	Monoclonal
Recommended application	WB, ELISA
Concentration	1 mg/ml
Full name	RAC-alpha serine,threonine-protein kinase
Synonyms	AKT1; PKB; RAC; RAC-alpha serine; threonine-protein kinase; Protein kinase B; PKB; Protein kinase B alpha; PKB alpha; Proto-oncogene c-Akt; RAC-PK-alpha

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

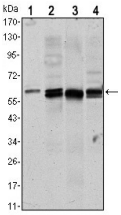
Recommended Dilution

ELISA: 1:10000

WB: 1:500 - 1:2000

Not yet tested in other applications.

Images



Western Blot analysis using Akt1 Monoclonal antibody against NIH/3T3 (1) HeLa (2)COS7 (3) and Jurkat (4) cell lysate.

Storage

-20°C for one year

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