

Phospho-Akt (S473) mouse Monoclonal Antibody(7F9)

Description

Product type Primary Antibody

Code BT-MCA1023

Host Mouse

Isotype IgG

Size 20ul, 50ul, 100ul

Immunogen Synthetic Peptide of Phospho-Akt (S473) at AA range of 410-490

Mol wt N/A

Species reactivity Human

Clonality Monoclonal

Recommended application WB, IHC-p, IF

Concentration 1 mg/ml

Full name AKT1
Synonyms AKT1

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

Background

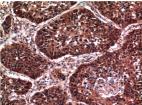
The serine-threonine protein kinase encoded by the AKT1 gene is catalytically inactive in serum-starved primary and immortalized fibroblasts. AKT1 and the related AKT2 are activated by platelet-derived growth factor. The activation is rapid and specific, and it is abrogated by mutations in the pleckstrin 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. Mutations in this gene have been associated with the Proteus syndrome. Multiple alternatively spliced transcript variants have been found for this gene.

Recommended Dilution

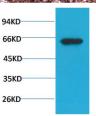
IHC: 1:100-200 WB: 1:1000-2000

Not yet tested in other applications.

Images



Immunohistochemical analysis of paraffin-embedded Human Lung Carcinoma Tissue using Phospho-Akt Ser473 Mouse Monoclonal antibody diluted at 1:200.



Western blot analysis of PC3 Cell Lysate using Phospho-Akt Ser473 Mouse Monoclonal antibody diluted at 1:1000.

Storage

-20°C for one year

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