BT LAB
Bioassay Technology Laboratory
Optimize Your Research

AKT mouse Monoclonal Antibody(10D6)

Description

Product type	Primary Antibody
Code	BT-MCA0004
Host	Mouse
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	Synthetic Peptide of AKT at AA range of 400-480
Mol wt	N/A
Species reactivity	Human,Mouse,Rat
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.

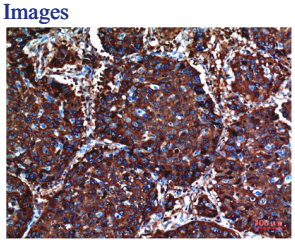
Recommended Dilution

IHC: 1:100-200

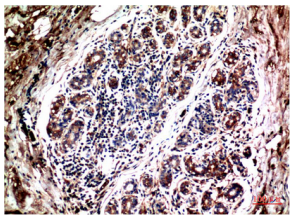
WB: 1:1000-2000

Not yet tested in other applications.

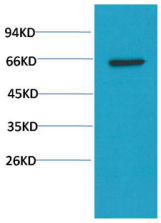
Images



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



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



Western blot analysis of PC3 Cell Lysate using Akt Mouse Monoclonal antibody diluted at 1:2000

Storage

-20°C for one year

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