

AKT1 Monoclonal Antibody

Catalog No. E-AB-22211

Note: Centrifuge before opening to ensure complete recovery of vial contents.

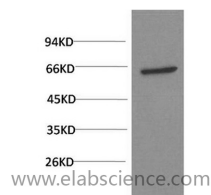
Description

Reactivity	Human
Immunogen	Synthetic Peptide of AKT
Host	Mouse
Isotype	IgG
Clone	Clone:1H2
Purification	Protein A purification
Buffer	PBS with 0.02% sodium azide, 0.5% protective protein and 50% glycerol, pH7.4

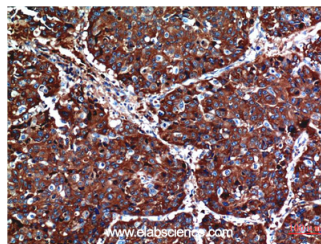
Applications Recommended Dilution

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

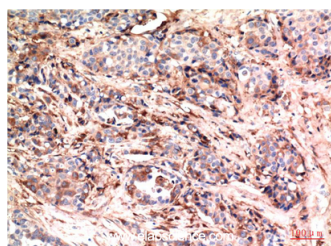
Data



Western Blot analysis of PC3 cells using AKT1 Monoclonal Antibody at dilution of 1:1000.
Observed Mw:60kDa



Immunohistochemistry of paraffin-embedded Human lung carcinoma tissue using AKT1 Monoclonal Antibody at dilution of 1:200.



Immunohistochemistry of paraffin-embedded Human breast carcinoma tissue using AKT1 Monoclonal Antibody at dilution of 1:200.

Preparation & Storage

Storage Store at -20°C. Avoid freeze / thaw cycles.

Background

For Research Use Only

The serine-threonine protein kinase AKT1 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.

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