

# Phospho-AKT1 (Ser473) Monoclonal Antibody

Catalog Number:E-AB-51038

1 Publications



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

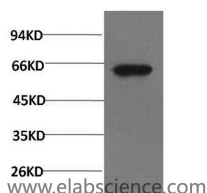
## Description

<b>Reactivity</b>	Human
<b>Immunogen</b>	Synthetic Peptide of Phospho-Akt (S473)
<b>Host</b>	Mouse
<b>Isotype</b>	IgG
<b>Clone</b>	Clone:7F9
<b>Purification</b>	Protein A purification
<b>Formulation</b>	PBS with 0.02% sodium azide, 0.5% protective protein and 50% glycerol, pH7.4

## Applications Recommended Dilution

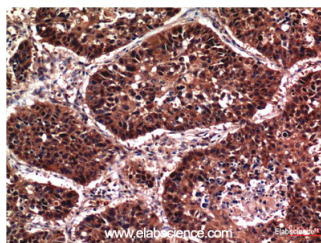
<b>WB</b>	1:1000-2000
<b>IHC</b>	1:100-200

## Data



Western Blot analysis of PC3 cells using Phospho-AKT1 (Ser473) Monoclonal Antibody at dilution of 1:1000.

**Observed Mw:60kDa**



Immunohistochemistry of paraffin-embedded Human lung carcinoma tissue using Phospho-AKT1 (Ser473) Monoclonal Antibody at dilution of 1:200.

## Preparation & Storage

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

## Background

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.

## For Research Use Only

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Fax: 1-832-243-6017