# Phospho-AKT1 (Ser473) Monoclonal Antibody

**catalog number:** E-AB-51038

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

## Description

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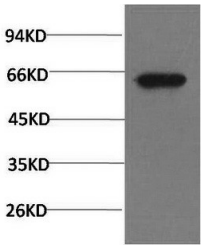
|---|---|
| **Reactivity** | Human |
| **Immunogen** | Synthetic Peptide of Phospho-Akt (S473) |
| **Host** | Mouse |
| **Isotype** | IgG |
| **Clone** | 7F9 |
| **Purification** | Protein A purification |
| **Conjugation** | Unconjugated |
| **Buffer** | Phosphate buffered solution, pH 7.4, containing 0.05% stabilizer, 0.5% protein protectant and 50% glycerol. |

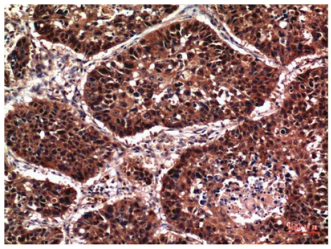
| Applications | Recommended Dilution |
|---|---|
| **WB** | 1:1000-2000 |
| **IHC** | 1:100-200 |

## Data




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

**Observed-MW:60 kDa**



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

## Preparation & Storage

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| **Storage** | Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles. |
| **Shipping** | The product is shipped with ice pack,upon receipt,store it immediately at the temperature recommended. |

## 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.