

## Recombinant Phospho-AKT (Ser473) Monoclonal Antibody

**catalog number: AN300376P**

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

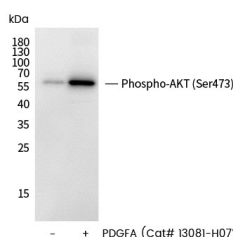
### Description

<b>Reactivity</b>	Human
<b>Immunogen</b>	A synthetic peptide corresponding to residues around Ser473 of Human Phospho-AKT
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Clone</b>	6H7
<b>Purification</b>	Protein A
<b>Buffer</b>	0.2 µm filtered solution in PBS

### Applications Recommended Dilution

<b>WB</b>	1:1000-1:5000
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### Data



Western blot analysis of extracts from serum-starved NIH-3T3, untreated (-); treated with PDGFA (5 µg/mL, 5 min; +), using Phospho-AKT (Ser473) rabbit monoclonal Antibody at 1:1000 dilution.

**Observed-MW:56 kDa**

**Calculated-MW:56 kDa**

### Preparation & Storage

**Storage** This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.

**Shipping** Ice bag

### 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.

### For Research Use Only

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Rev. V1.0