# Phospho-AKT1 (Thr450) Polyclonal Antibody

Catalog Number: E-AB-20804



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

### **Description**

Reactivity Human, Mouse, Rat

**Immunogen** Synthesized peptide derived from human Akt1 around the phosphorylation site of

Thr450

Host Rabbit Isotype IgG

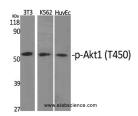
Purification Affinity purification
Conjugation Unconjugated

**Formulation** PBS with 0.02% sodium azide, 0.5% protective protein and 50% glycerol, pH7.4

**Applications** Recommended Dilution

WB 1:500-1:2000 IHC 1:100-1:300 ELISA 1:5000

#### Data



Western Blot analysis of various cells with Phospho-Akt1 (Thr450) Polyclonal Antibody at dilution of 1:1000

> Observed Mw:55kDa Calculated Mw:56kDa

## 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.

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