

# **Akt1 Polyclonal Antibody**

## Description

Product type Primary Antibody

Code BT-AP00348

Host Rabbit

Isotype IgG

**Size** 20ul, 50ul, 100ul

Immunogen The antiserum was produced against synthesized peptide derived from human AKT1. AA range:11-60

Mol wt 55686

Species reactivity Human, Mouse, Rat

Clonality Polyclonal

Recommended application WB, IHC-p, ELISA

Concentration 1 mg/ml

Full name Akt1 Antibody

Synonyms AKT1; PKB; RAC; RAC-alpha serine/threonine-protein kinase; Protein kinase B; PKB; Protein kinase B

alpha; PKB alpha; Proto-oncogene c-Akt; RAC-PK-alpha

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

## Background

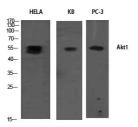
The serine-threonine protein kinase encoded by the AKT1 gene is catalytically inactive in serum-starved primary and immortalized fibroblasts. AKT1 and the related AKT2 are activated by platelet-derived growth factor. The activation is rapid and specific, and it is abrogated by mutations in the pleckstrin 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 AKT1 have been associated with the Proteus syndrome. Multiple alternatively spliced transcript variants have been found for this gene.

### **Recommended Dilution**

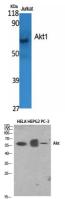
WB: 1: 500 - 1: 2000 IHC: 1: 100 - 1: 300 ELISA: 1: 20000

Not yet tested in other applications.

## **Images**



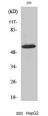
Western Blot analysis of HELA KB PC-3 using Akt1 Polyclonal Antibody. Antibody was diluted at 1:2000



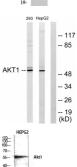
Western Blot analysis of various cells using Akt1 Polyclonal Antibody diluted at 1:2000



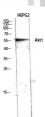
Western Blot analysis of HELA HEPG2 PC-3 using Akt1 Polyclonal Antibody. Antibody was diluted at 1:2000



Western Blot analysis of HepG2 cells using Akt1 Polyclonal Antibody diluted at 1:2000



Western blot analysis of lysates from 293 cells and HepG2 cells, using Akt Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of HEPG2 using Akt1 Polyclonal Antibody diluted at 1:2000

#### Storage

-20°C for one year