CREATIVE BIOMART®
Assay Kit

# Akt1/PKB? Immunoprecipitation-Kinase Assay Kit

## Product Information

**Cat.No.** Kit-0067

**Product Overview**

Akt1/PKBa Immunoprecipitation-Kinase Assay Kit designed to measure phosphotransferase activity in an immunocomplex formed between the Akt1/PKBa PH Domain antibody & active Akt/PKB.

**Size**

1 kit

**Description**

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. Multiple alternatively spliced transcript variants have been found for this gene.

**Applications**

Application: Akt1/PKBa Immunoprecipitation-Kinase Assay Kit designed to measure phosphotransferase activity in an immunocomplex formed between the Akt1/PKBa PH Domain antibody & active Akt/PKB.Key Applications: Kinase Assay; Immunoprecipitation.

**Kit Components**

P81 Phosphocellulose Squares;Assay Dilution Buffer, 5X;Anti-Akt/PKB, PH Domain, clone SKB1;PKA Inhibitor peptide;Magnesium/ATP Cocktail

**Detection method** Radioactive

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