

## AKT1 (E49K)

**Catalog Number:** 26137

**Gene Symbol:** AKT1; AKT; CWS6; PKB; PKB-ALPHA; PRKBA; RAC; RAC-ALPHA

**Description:** Anti-AKT1 (E49K) Mouse Monoclonal Antibody

**Background:** AKT1 is one of 3 closely related serine/threonine-protein kinases (AKT1, AKT2 and AKT3) called the AKT kinases, which regulate many processes including metabolism, proliferation, cell survival, growth and angiogenesis. Its function is mediated through serine and/or threonine phosphorylation of a range of downstream substrates. There are evidences that mutation or abnormal expression in AKT1 is associated with cancers.

**Immunogen:** A synthetic peptide from the internal region of AKT1 which includes the mutation of E49K, human origin.

**Tested applications:** ELISA, WB, IHC

**Recommended dilutions:**

ELISA: 1:1000-1:5000

WB: 1:500-1:2000

IHC: 1:50-1:100

**Concentration:** 1 mg/ml

**Host:** Mouse

**Clonality:** Monoclonal

**Purity:** Purified from ascites

**Format:** Liquid

**Storage buffer:**

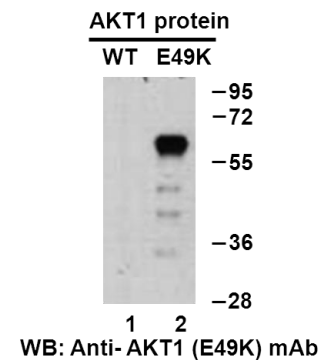
Preservative: no

Constituents: PBS (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150 mM NaCl, 50% glycerol

**Species Reactivity:** Recognizes E49K mutant, but not wild-type AKT1 of vertebrates.

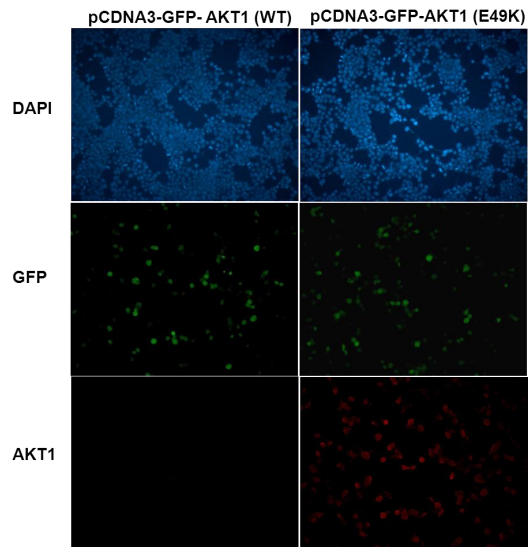
**Storage Conditions:** Store at -20°C. Avoid freeze / thaw cycles.

### Western blot:



**Western blot analysis of recombinant AKT1 (E49K) and wildtype proteins.** Purified His-tagged AKT1 (E49K) protein (lane 2) and corresponding wild type protein (lane 1) were blotted with anti-AKT1 (E49K) monoclonal antibody (Cat. #26137).

**Immunofluorescence:**



**Immunofluorescence of cells expressing AKT1 proteins with anti-AKT1 (E49K) antibody.**

HEK293T cells were transfected with pCDNA3-GFP-AKT1 (WT) plasmid (left column) or pCDNA3-GFP-AKT1 (E49K) plasmid (right column), then fixed and stained with anti-AKT1 (E49K) monoclonal antibody (Cat. #26137).