

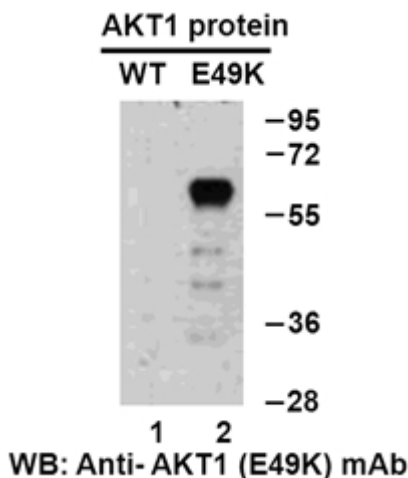
**AKT1(E49K)****AKT1(E49K)****Cat. #:** 26137**Size:** 100 µl**Gene Symbol:** AKT1; AKT; CWS6; PKB; PKB-ALPHA; PRKBA; RAC; RAC-ALPHA**Description:** Anti-AKT1(E49K) Mouse Monoclonal Antibody**Background:** AKT1 is one of 3 closely related serine/threonine-protein kinases (AKT1, AKT2 and AKT3) called 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.**Applications:** ELISA, WB, IHC**Recommended Dilutions:**

ELISA: 1:1000–1:5000

WB: 1:500–1:2000

IHC: 1:50–1:100

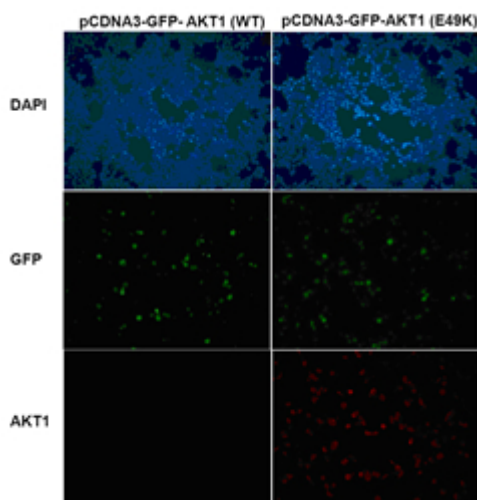
**Concentration:** 1 mg/ml**Host Species:** Mouse**Format:** Liquid**Clonality:** Monoclonal**Isotype:** IgG**Purity:** Purified from ascites**Preservative:** No**Constituents:** PBS (without  $Mg^{2+}$  and  $Ca^{2+}$ ), pH 7.4, 150 mM NaCl, 50% glycerol**Species Reactivity:** Recognizes E49K mutant, but not wild type AKT1 of vertebrates.**Storage Conditions:** Store at  $-20^{\circ}C$ . Avoid repeated freezing and thawing



## Western blot:

### Western blot analysis of recombinant AKT1(E49K) and wild type 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).