

AKT1(E49K)

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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

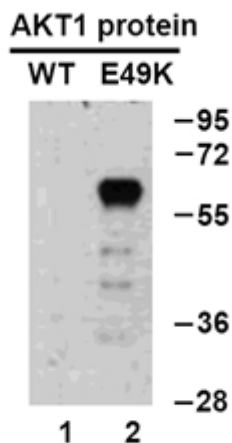
Purity: Purified from ascites

Preservative: No

Constituents: PBS (without Mg²⁺ and Ca²⁺), 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 repeated freezing and thawing

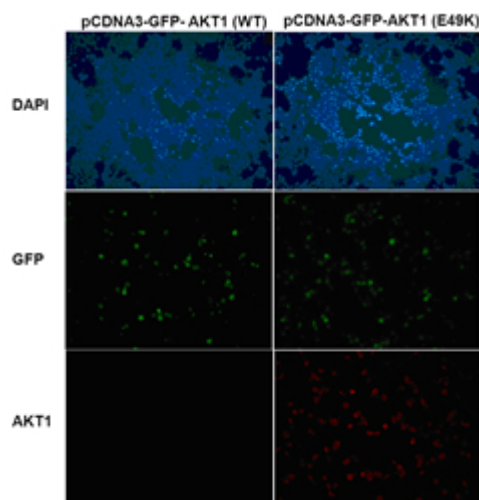


WB: Anti- AKT1 (E49K) mAb

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).