

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:

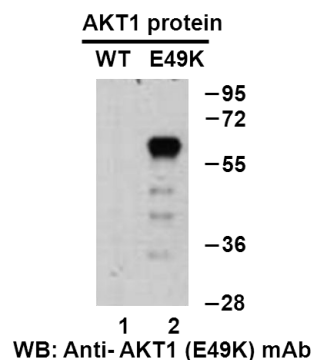
Preservative: no

Constituents: PBS (without 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 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).

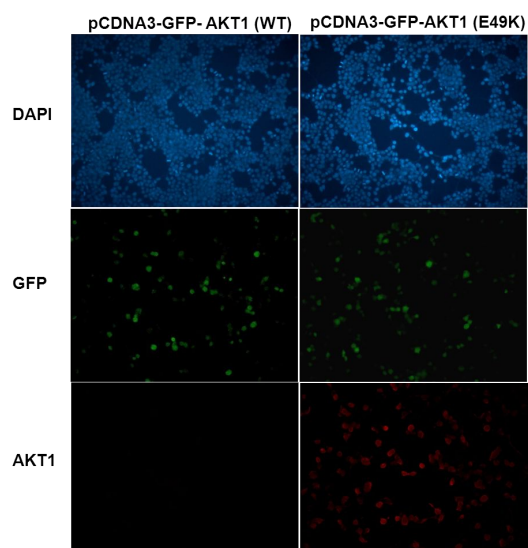
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Immunofluorescence:



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).

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