

Product datasheet for TA396843

OriGene Technologies, Inc.

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AKT1 Mouse Monoclonal Antibody [Clone ID: 14E5.A2.B2.H9]

Product data:

Product Type: Primary Antibodies

Clone Name: 14E5.A2.B2.H9

Applications: ELISA, FC, IF, IHC, WB

Recommended Dilution: WB: User Optimized

IHC: User Optimized **IF**: User Optimized **FC**: 1.0 µg/mL

ELISA: User Optimized

Reactivity: Human, Mouse, Rat

Host: Mouse

Isotype: IgG2a, kappa
Clonality: Monoclonal

Immunogen: Anti-AKT1 Antibody was produced in mice by repeated immunizations with a synthetic

peptide corresponding to internal residues of human AKT1 protein followed by monoclonal

development.

Specificity: Anti-AKT1 antibody is directed against human AKT1. The antibody detects both

unphosphorylated and phosphorylated forms of the protein. Anti-AKT1 antibody was purified from ascites by Protein A chromatography. Cross reactivity with AKT1 from other species has not been determined, however, the sequence of the immunogen shows 85% identity to

mouse and 92% identity with rat, therefore, cross reactivity is expected.

Formulation: 0.02 M Potassium Phosphate, 0.5 M Sodium Chloride, pH 7.2

Reconstitution Method: Restore with deionized water (or equivalent) - Reconstitution Volume: 50µL

Concentration: 1.0 mg/mL - lot specific

Conjugation: PE

Storage: Store vial at 4° C prior to restoration. Restore with deionized water (or equivalent). This

product is stable at 4° C as an undiluted liquid. Dilute only prior to immediate use. Centrifuge product if not completely clear after standing at room temperature. Do not freeze after

reconstitution. Store reagent in the dark. Use subdued lighting during handling and

incubation of cells prior to analysis.





AKT1 Mouse Monoclonal Antibody [Clone ID: 14E5.A2.B2.H9] - TA396843

Stability: Expiration date is one (1) year from date of receipt.

Gene Name: AKT serine/threonine kinase 1

Database Link: Entrez Gene 207 Human

P31749

Background: AKT is a component of the PI-3 kinase pathway and is activated by phosphorylation at Ser 473

and Thr 308. AKT is a cytoplasmic protein also known as AKT1, Protein Kinase B (PKB) and rac (related to A and C kinases). AKT is a key regulator of many signal transduction pathways. AKT Exhibits tight control over cell proliferation and cell viability. Overexpression or

inappropriate activation of AKT is noted in many types of cancer. AKT mediates many of the downstream events of PI 3-kinase (a lipid kinase activated by growth factors, cytokines and

insulin). PI 3-kinase recruits AKT to the membrane, where it is activated by PDK1 phosphorylation. Once phosphorylated, AKT dissociates from the membrane and phosphorylates targets in the cytoplasm and the cell nucleus. AKT has two main roles: (i) inhibition of apoptosis; (ii) promotion of proliferation. Anti-AKT1 (MOUSE) PE conjugated

Monoclonal Antibody is ideal for investigators involved in Cell Signaling, Cancer,

Neuroscience, Signal Transduction research.

Synonyms: mouse anti-AKT1 antibody PE conjugation, Phycoerythrin conjugated mouse anti-AKT-1

antibody, AKT-1, PKB antibody, PKB gamma antibody, PKBGAMMA antibody, PKKBG antibody,

Protein kinase Akt 1 antibody, Protein kinase B gamma antibody, RAC-gamma

serine/threonine-protein kinase, RAC-PK-gamma

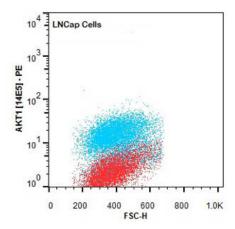
Note: Anti-AKT1 PE Antibody is tested for Flow Cytometry. This antibody is suitable for ELISA,

immunohistochemistry, and western blotting. Expect a band approximately 56 kDa in size corresponding to AKT1 protein by western blotting in the appropriate cell lysate or extract. This monoclonal antibody reacts with human AKT. Specific conditions for reactivity should be optimized by the end user. For immunohistochemistry we recommend the use of fresh frozen tissues. Attempts at staining paraffin-embedded formalin fixed tissues were negative.

No pre-treatment of sample is required.



Product images:



Flow Cytometry of Mouse Anti-AKT1 antibody. Cells: LNCap Cells. Stimulation: none. Primary antibody: Phycoerythrin AKT1 antibody at 1.0 μ g/mL for 20 min at 4°C.