

Product datasheet for TA396815S

AKT1 Mouse Monoclonal Antibody [Clone ID: 5E5.F5.D7]

Product data:

Product Type: Primary Antibodies Clone Name: 5E5.F5.D7 **Applications:** ELISA, FC, IHC, WB Recommended Dilution: WB: 1:500-1:2000 IHC: 20 µg/mL FC: User Optimized ELISA: 1:2,000 - 1:10,000 **Reactivity:** Human Host: Mouse Isotype: IgG2b, 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. 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, 0.15 M Sodium Chloride, pH 7.2 **Concentration:** 1.0 mg/ml - lot specific **Conjugation:** Unconjugated Storage: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. Stability: Expiration date is one (1) year from date of receipt. Database Link: P31749



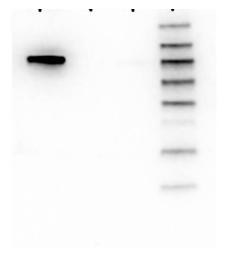
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	AKT1 Mouse Monoclonal Antibody [Clone ID: 5E5.F5.D7] – TA396815S
Background:	AKT1 Antibody detects AKT1 which is a component of the PI-3 kinase pathway and is activated by phosphorylation at Ser 473 and Thr 308. AKT is a cytoplasmic protein also known as 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 Antibody is ideal for investigators involved in Cell Signaling, Neuroscience and Signal Transduction research.
Synonyms:	mouse anti-AKT1 antibody, AKT-1, PKB antibody, PKB gamma antibody, PKBGAMMA antibody, PRKBG antibody, Protein kinase Akt 1 antibody, Protein kinase B gamma antibody, RAC-gamma serine/threonine-protein kinase, RAC-PK-gamma
Note:	Anti-AKT1 Antibody is tested in ELISA, Flow Cytometry, and western blotting. This antibody is suitable in immunohistochemistry. 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.

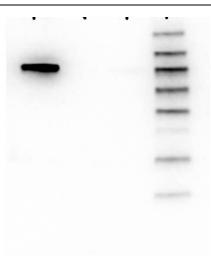
Product images:



Western Blot of Mouse anti-AKT1 antibody. Lane 1: GST-AKT1. Lane 2: GST-AKT2. Lane 3: GST-AKT3. Lane 4: Molecular Weight Marker. Load: 25 ng per lane. Primary antibody: AKT1 antibody at 1:1000 for overnight at 4°C. Secondary antibody: Mouse secondary antibody at 1:40,000 for 30 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 78 kDa for AKT1. Other band(s): none.

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Western Blot of Mouse anti-AKT1 antibody. Lane 1: GST-AKT1. Lane 2: GST-AKT2. Lane 3: GST-AKT3. Lane 4: Molecular Weight Marker. Load: 25 ng per lane. Primary antibody: AKT1 antibody at 1:1000 for overnight at 4°C. Secondary antibody: Mouse secondary antibody at 1:40,000 for 30 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 78 kDa for AKT1. Other band(s): none.

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