

## Product datasheet for **TA396817S**

### **AKT3 Mouse Monoclonal Antibody [Clone ID: 9A5.H9.G7]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	9A5.H9.G7
<b>Applications:</b>	ELISA, FC, IF, IHC, WB
<b>Recommended Dilution:</b>	<b>WB:</b> 1:500-1:2000 <b>IHC:</b> 20 µg/mL <b>IF:</b> User Optimized <b>FC:</b> User Optimized <b>ELISA:</b> 1:2,000 - 1:10,000
<b>Reactivity:</b>	Human
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1, kappa
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Anti-AKT3 Antibody was produced in mice by repeated immunizations with a synthetic peptide corresponding to internal residues of human AKT3 protein.
<b>Specificity:</b>	Anti-AKT3 antibody is directed against human AKT3. The antibody detects both unphosphorylated and phosphorylated forms of the protein. Anti-AKT3 antibody was purified from ascites by Protein A chromatography. Cross reactivity with AKT3 from other species has not been determined, however, the sequence of the immunogen shows 100% identity to human, mouse, and rat, therefore, cross reactivity is expected. Cross-reactivity with AKT2 and AKT has not been determined.
<b>Formulation:</b>	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
<b>Concentration:</b>	0.7 mg/ml - lot specific
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	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.
<b>Stability:</b>	Expiration date is one (1) year from date of receipt.
<b>Gene Name:</b>	AKT serine/threonine kinase 3



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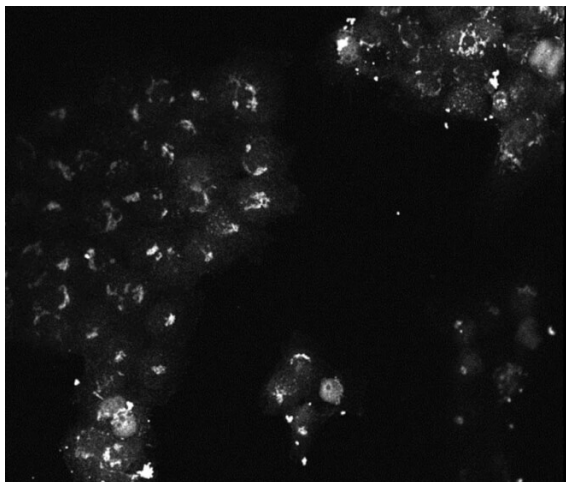
**Database Link:** [Entrez Gene 10000 Human Q9Y243](#)

**Background:** AKT3 Antibody detects AKT3 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-AKT3 Antibody is ideal for investigators involved in Cell Signaling, Neuroscience and Signal Transduction research.

**Synonyms:** Mouse anti-AKT3 antibody, AKT-3, PKB antibody, PKB gamma antibody, PKBGAMMA antibody, PRKBG antibody, Protein kinase Akt 3 antibody, Protein kinase B gamma antibody, RAC-gamma serine/threonine-protein kinase, RAC-PK-gamma

**Note:** Anti-AKT3 Antibody is tested in ELISA, IF, and western blotting. This antibody is suitable in immunohistochemistry and flow cytometry. Expect a band approximately 56 kDa in size corresponding to AKT3 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:



Immunofluorescence of Mouse monoclonal anti-AKT3 antibody. Cell Type: A431 cells. Fixation: 4% paraformaldehyde 10 min. Permeabilization: 0.5% Triton X 30 min. Primary Ab: (p/n 200-301-J36) at 1:250 for 72 hours 4°C. Secondary Ab: (p/n 610-142-121) at 1:1000 overnight 4°C.