

Datasheet for ABIN5596895

anti-AKT3 antibody (Internal Region) (APC)



[Go to Product page](#)

2 Images

Overview

Quantity:	50 µg
Target:	AKT3
Binding Specificity:	Internal Region
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This AKT3 antibody is conjugated to APC
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Dot Blot (DB), Flow Cytometry (FACS), Fluorescence Microscopy (FM)

Product Details

Purpose:	AKT3 APC Antibody
Immunogen:	Immunogen: Anti-AKT3 Antibody was produced in mice by repeated immunizations with a synthetic peptide corresponding to internal residues of human AKT3 protein. Immunogen Type: Conjugated Peptide
Clone:	9A5-H9-G7
Isotype:	IgG1 kappa
Cross-Reactivity (Details):	Anti-AKT3 antibody is directed against human AKT3. The antibody detects both unphosphorylated and phosphorylated forms of the protein.
Characteristics:	Synonyms: Mouse anti-AKT3 antibody APC conjugation, Allophycocyanin conjugated Mouse anti-AKT 3 antibody, AKT-3, PKB antibody, PKB gamma antibody, PKBGAMMA antibody, PRKBG

Product Details

antibody, Protein kinase Akt 3 antibody, Protein kinase B gamma antibody, RAC-gamma serine/threonine-protein kinase, RAC-PK-gamma

Labeling Ratio: 1-2

Target Details

Target: AKT3

Alternative Name: AKT3 ([AKT3 Products](#))

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-AKT3 (MOUSE) APC conjugated Monoclonal Antibody is ideal for investigators involved in Cell Signaling, Cancer, Neuroscience, Signal Transduction research.

Gene ID: 10000

NCBI Accession: [NP_001193658](#)

UniProt: [Q9Y243](#)

Pathways: [PI3K-Akt Signaling](#), [RTK Signaling](#), [TLR Signaling](#), [Hepatitis C](#), [VEGF Signaling](#)

Application Details

Application Notes: Flow Cytometry Dilution: User Optimized
Immunohistochemistry Dilution: User Optimized
Application Note: Anti-AKT3 APC 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 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

Application Details

fresh frozen tissues. Attempts at staining paraffin-embedded formalin fixed tissues were negative. No pre-treatment of sample is required.

Western Blot Dilution: User Optimized

ELISA Dilution: User Optimized

IF Microscopy Dilution: User Optimized

Restrictions: For Research Use only

Handling

Format: Lyophilized

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

Concentration: 1.0 mg/mL

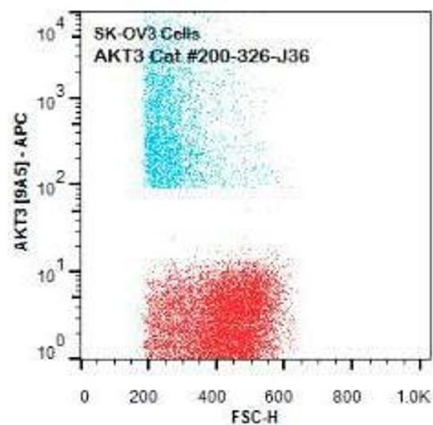
Buffer: Buffer: 0.02 M Potassium Phosphate, 0.5 M Sodium Chloride, pH 7.2
Stabilizer: 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Preservative: None

Preservative: Without preservative

Storage: 4 °C, -20 °C

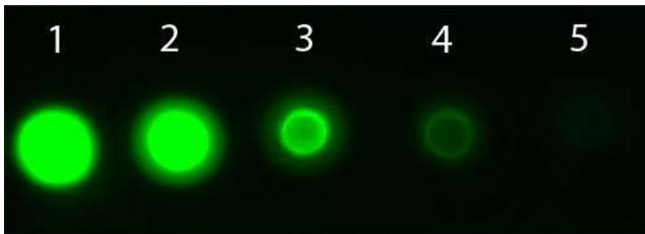
Storage Comment: Store vial at 4° C prior to restoration. Restore with deionized water (or equivalent). This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. Centrifuge product if not completely clear after standing at room temperature. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Store reagent in the dark. Use subdued lighting during handling and incubation of cells prior to analysis.

Expiry Date: 12 months



Flow Cytometry

Image 1. Flow Cytometry of Mouse anti-AKT3 antibody. Cells: SK-OV3 Cells. Stimulation: none. Primary antibody: Allophycocyanin conjugated AKT3 antibody at 1.0 µg/mL for 20 min at 4°C.



Dot Blot

Image 2. Dot Blot of AKT3 Allophycocyanin Conjugated Monoclonal Antibody. Antigen: AKT3 non-phosphorylated. Load: Lane 1: 50 ng. Lane 2: 16.67 ng. Lane 3: 5.56 ng. Lane 4: 1.85 ng. Lane 5: 0.62 ng. Primary antibody: none. Secondary antibody: AKT3 Allophycocyanin Conjugated Monoclonal Antibody at 1:1,000 in ABIN925618 for 60 min at RT. Block: ABIN925618 for 60 min at RT.