Datasheet for ABIN5596894

anti-AKT3 antibody (Internal Region) (APC)

2 Images

Go to Product page

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), Flow Cytometry (FACS), Fluorescence Microscopy (FM)

Product Details

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: Peptide
Clone:	25F6-F6-D8
Isotype:	IgG1
Cross-Reactivity (Details):	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.
Purification:	Anti-AKT3 antibody is directed against human AKT3. The antibody detects both unphosphorylated and phosphorylated forms of the protein. Anti-AKT3 antibody was purified

Product Details

	from ascites by Protein A chromatography.
Labeling Ratio:	1-2

Target Details

Target:	AKT3
Alternative Name:	AKT3 (AKT3 Products)
Background:	Synonyms: AKT 3 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 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 Name: AKT3
Gene ID:	10000
UniProt:	Q9Y243
Pathways:	PI3K-Akt Signaling, RTK Signaling, TLR Signaling, Hepatitis C, VEGF Signaling

Application Details

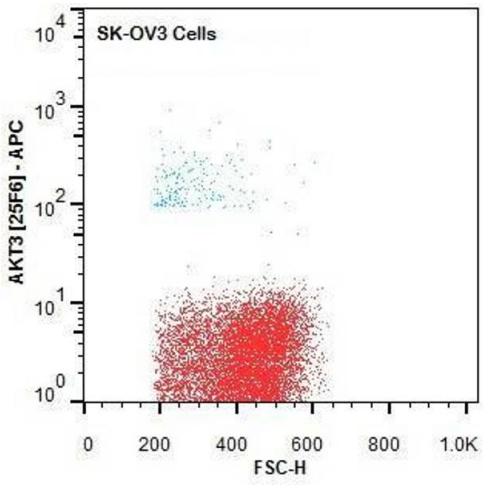
Application Notes:	Flow Cytometry Dilution: 1.0 µg/mL Immunohistochemistry Dilution: User optimized Application Note: Anti-AKT3 APC Antibody is suitable for Flow Cytometry, ELISA, immunohistochemistry, and western blotting. Expect a band approximately 56 kDa in size corresponding to AKT3 protein by western blotting in the appropriate cell lysate or extract. This monoclonal antibody reacts with human AKT. Specific conditions for reactivity should be

Application Details

	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. Western Blot Dilution: User Optimized ELISA Dilution: User Optimized IF Microscopy Dilution: User optimized
Restrictions:	For Research Use only

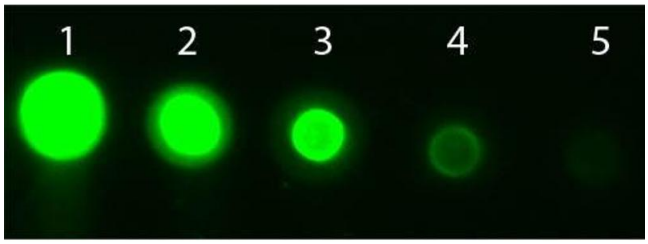
Handling

Format:	Lyophilized
Reconstitution:	Reconstitution Volume: 100 µL to 20 µL 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:	Without preservative
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at 4° C prior to restoration. Restore with deionized water (or equivalent). For extended storage aliquot contents and freeze at -20° C or below. 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. Expiration date is one (1) year from date of restoration.
Expiry Date:	12 months



Flow Cytometry

Image 1. Flow Cytometry of Mouse anti-AKT3 antibody. Cells: SK-OV3 Cells. Stimulation: none. Primary antibody: Allophycocyanin 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.