ANTIBODIES ONLINE

Datasheet for ABIN1607691 anti-AKT3 antibody (Internal Region)

3 Images



Overview

Quantity:	1 mg
Target:	AKT3
Binding Specificity:	Internal Region
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS), Immunofluorescence (IF), Fluorescence Microscopy (FM)

Product Details

Purpose:	AKT3 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
lsotype:	lgG1 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, 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

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Product Details

Sterility:

Sterile filtered

Target Details

Target:	AKT3
Alternative Name:	AKT3 (AKT3 Products)
Background:	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 o
	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 membran
	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.
Gene ID:	10000
NCBI Accession:	NP_001193658
UniProt:	Q9Y243
Pathways:	PI3K-Akt Signaling, RTK Signaling, TLR Signaling, Hepatitis C, VEGF Signaling

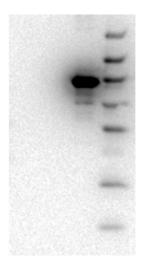
Application Details

Application Notes:	Flow Cytometry Dilution: User Optimized
	Immunohistochemistry Dilution: 20 µg/mL
	Application 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.
	Western Blot Dilution: 1:500-1:2000
	ELISA Dilution: 1:2,000 - 1:10,000

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Application Details	
	IF Microscopy Dilution: User Optimized Other: User Optimized
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	0.7 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: None
Preservative:	Without preservative
Storage:	4 °C,-20 °C
Storage Comment:	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.
Expiry Date:	12 months

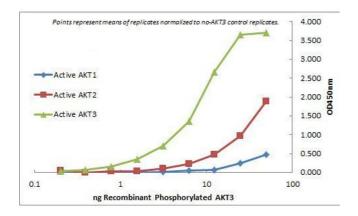
Images

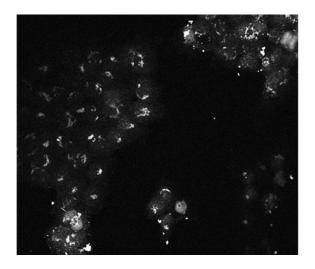


Western Blotting

Image 1. Western Blot of Mouse monoclonal anti-AKT3 antibody. Lane 1: GST-AKT1. Lane 2: GST-AKT2. Lane 3: GST-AKT3. Load: 50 ng per lane. Primary antibody: anti-AKT3 antibody at 1:1000 for overnight at 4°C. Secondary antibody: Rabbit secondary antibody anti mouse at 1:40,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 85 kDa for GST-AKT3.

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ELISA

Image 2. ELISA of Mouse Monoclonal anti-AKT3 antibody. Antigen: GST AKT1, GST AKT2, GST AKT3. Coating amount: starting from 50 ng/well. Primary antibody: Mouse monoclonal anti-AKT3 antibody at 100ng/well. Dilution series: 2-fold. Mid-point concentration: 3 ng/mL Mouse monoclonal anti-AKT3 antibody. Secondary antibody: Peroxidase mouse secondary antibody at 1:10,000. Substrate: TMB.

Immunofluorescence

Image 3. Immunofluorescence of Mouse monoclonal anti-AKT3 antibody Cell Type: A431 cells Fixation: 4% paraformaldehyde 10 min Permeablization: 0.5% Triton X 30 min Primary Ab: 200-301-J36 1:250 72 hours 4°C Secondary Ab: 610-142-121 1:1000 Overnight 4°C

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