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anti-AKT2 antibody (Internal Region) (Biotin)

50 μg





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Quantity:

Purification:

Target:	AKT2	
Binding Specificity:	Internal Region	
Reactivity:	Human	
Host:	Rat	
Clonality:	Monoclonal	
Conjugate:	This AKT2 antibody is conjugated to Biotin	
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS), Fluorescence Microscopy (FM)	
Product Details		
Immunogen:	Immunogen: Anti-AKT2 Antibody was produced in rat by repeated immunizations with a synthetic peptide corresponding to internal residues of human AKT2 protein. Immunogen Type: Peptide	
Clone:	16G11-E8	
Isotype:	lgG2a	
Cross-Reactivity (Details):	Cross reactivity with AKT2 from other species has not been determined, however, the sequence of the immunogen shows 88% identity to mouse and 90% identity with rat, therefore, cross reactivity is expected.	

Anti-AKT2 antibody is directed against human AKT2. The antibody detects both

unphosphorylated and phosphorylated forms of the protein. Anti-AKT2 was purified from

Product Details

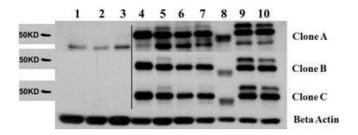
	concentrated tissue culture supernate by Protein G chromatography.	
Labeling Ratio:	1-2	
Target Details		
Target:	AKT2	
Alternative Name:	AKT2 (AKT2 Products)	
Background:	Synonyms: AKT 2 antibody, AKT-2, PKB antibody, PKB beta antibody, PKBBETA antibody,	
	PRKBB antibody, Protein kinase Akt 2 antibody, Protein kinase B beta antibody, RAC-beta	
	serine/threonine-protein kinase, RAC-PK-beta	
	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-AKT2 (RAT) PE conjugated	
	Monoclonal Antibody is ideal for investigators involved in Cell Signaling, Cancer, Neuroscience	
	Signal Transduction research.	
	Gene Name: AKT2	
Gene ID:	208	
UniProt:	P31751	
Pathways:	PI3K-Akt Signaling, RTK Signaling, AMPK Signaling, TLR Signaling, Cellular Glucan Metabolic	
	Process, Regulation of Carbohydrate Metabolic Process, Hepatitis C, VEGF Signaling	
Application Details		
Application Notes:	Flow Cytometry Dilution: User Optimized	
	Immunohistochemistry Dilution: User optimized	
	Application Note: Anti-AKT2 BIOTIN Antibody is suitable for Flow Cytometry, ELISA,	
	immunohistochemistry, and western blotting. Expect a band approximately 56 kDa in size	
	corresponding to AKT2 protein by western blotting in the appropriate cell lysate or extract. Thi	

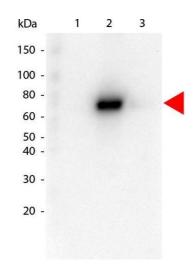
monoclonal antibody reacts with human AKT. Specific conditions for reactivity should be
optimized by the end user. For immunohistochemistry we recommend the use of fresh frozen
tissues. Attempts at staining paraffin-embedded formalin fixed tissues were negative. No pre-
treatment of sample is required.
Western Blot Dilution: User Optimized
ELISA Dilution: User Optimized
IF Microscopy Dilution: User optimized
For Research Use only

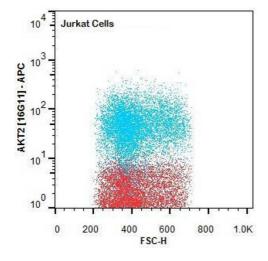
Restrictions:

Handling

Format:	Lyophilized	
Reconstitution:	Reconstitution Volume: 100 μL to 20 μL Reconstitution Buffer: Restore with deionized water (or equivalent)	
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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:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which	
	should be handled by trained staff only.	
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	







Western Blotting

Image 1. Western Blot of Rat Anti-AKT2 antibody. Lane 1: C2C12. Lane 2: MEF#1. Lane 3: MEF#2. Lane 4: A549. Lane 5: Calu-1. Lane 6: PC3. Lane 7: HepG2. Lane 8: Jurkat. Lane 9: SKOV3. Lane 10: 293T. Load: 35 μg per lane. Primary antibody: AKT-2 unconjugated antibody at 1:1000 for overnight at 4°C. Secondary antibody: Rat secondary antibody at 1:20,000 for 1 h at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 56 kDa for AKT2.

Western Blotting

Image 2. Western Blot of Rat anti-AKT2 antibody. Lane 1: GST Tagged recombinant AKT1. Lane 2: GST Tagged recombinant AKT2. Lane 3: GST Tagged recombinant AKT3. Load: 25 ng per lane. Primary antibody: AKT2 unconjugated antibody at 1:1,000 for overnight at 4°C. Secondary antibody: Peroxidase rat secondary antibody at 1:40,000 for 30 min at RT. Block: ABIN925618 for 30 min at RT. Predicted/Observed size: 78 kDa for AKT2. Other band(s): none.

Flow Cytometry

Image 3. Flow Cytometry of Rat anti-AKT2 antibody. Cells: Jurkat Cells. Stimulation: none. Primary antibody: Allophycocyanin AKT2 antibody at 1.0 μ g/mL for 20 min at 4°C.

Please check the product details page for more images. Overall 4 images are available for ABIN5596672.