

Datasheet for 200-306-269**AKT phospho T308 Antibody Biotin Conjugated****Overview**

Description:	Anti-AKT pT308 (MOUSE) Monoclonal Antibody Biotin Conjugated - 200-306-269
Item No.:	200-306-269
Size:	50 µg
Applications:	Dot Blot, ELISA, IHC, WB
Reactivity:	Human, Mouse, Rat, Monkey
Host Species:	Mouse

Product Details

Background:	Anti-AKT phospho T308 is ideal for western blotting, ELISA, IHC and IP. Phospho AKT pT308 antibody is specific for AKT protein phosphorylated at T308. AKT is a component of the PI-3 kinase pathway and is activated by phosphorylation at Ser 473 and Thr 308. Anti-AKT pT308 monoclonal antibody is ideal for investigators involved in Cancer, Cell Signaling, Neuroscience, Signal Transduction research.
Synonyms:	mouse anti-AKT pT308 Biotin conjugated Antibody, Biotin conjugated mouse anti-AKT pT308 Antibody, RAC-PK-alpha, Protein kinase B, PKB, C-AKT, RAC-alpha serine/threonine-protein kinase, Proto-oncogene c-Akt, AKT1, AKT 1, AKT-1, Akt phospho T308 Antibody, Anti-AKT pT308 Monoclonal Antibody Biotin Conjugated
Host Species:	Mouse
Conjugate:	Biotin
Clonality:	Monoclonal
Clone ID:	18F3.H11
Format:	IgG1
F/P Ratio:	10-20

Target Details

Gene Name:	AKT1
Reactivity:	Human, Mouse, Rat, Monkey

PTM Specificity:	Phosphorylation
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-AKT pT308 monoclonal antibody was produced by repeated immunizations with a synthetic phospho-peptide corresponding to residues surrounding T308 of human AKT1 protein.
Purity/Specificity:	Anti-AKT pT308 was purified from concentrated tissue culture supernate by Protein A chromatography. This antibody is specific for human and mouse AKT protein phosphorylated at T308. A BLAST analysis was used to suggest cross-reactivity with AKT pT308 from most vertebrate species sources based on 100% homology with the immunizing sequence. Cross-reactivity with AKT from other sources has not been determined. Cross-reactivity with AKT2 and AKT3 will likely occur. Cancer, Cell Signaling, Neuroscience, Signal Transduction research.
Relevant Links:	• UniProtKB - P31749 • GeneID - 207 • NCBI - 62241011

Application Details

Tested Applications:	Dot Blot, ELISA, IHC, WB
Application Note:	Biotin Conjugated Anti-AKT pT308 is tested for ELISA, immunohistochemistry, immunoprecipitation and western blotting. Expect a band approximately 56 kDa in size corresponding to phosphorylated AKT protein by western blotting in the appropriate cell lysate or extract. This phospho-specific monoclonal antibody reacts with human and mouse AKT pT308 and shows minimal reactivity by ELISA against the non-phosphorylated form of the immunizing peptide. Specific conditions for reactivity should be optimized by the end user. Use formalin-fixed paraffin-embedded sections for immunohistochemistry. No pre-treatment of sample is required.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:20,000
FC:	User Optimized
IHC:	20 µg/ml
IP:	User Optimized
WB:	1:500 - 1:3,000
Other:	This lot has additional BSA. To help prevent loss of product during aliquoting, it may be restored with 250 ul of deionized water (additional 150ul) to give a concentration of 0.2 mg/ml.

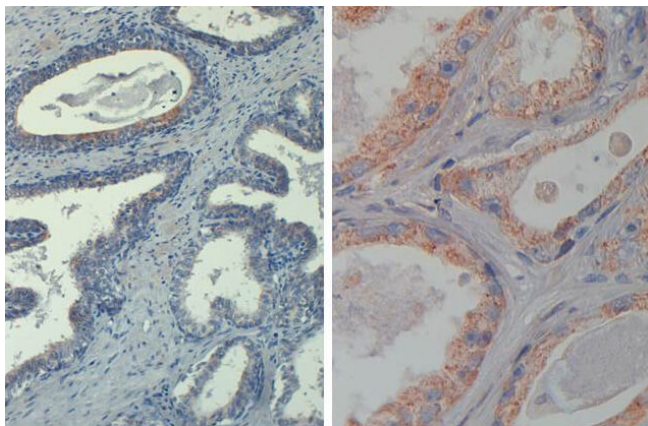
Formulation

Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	50µL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

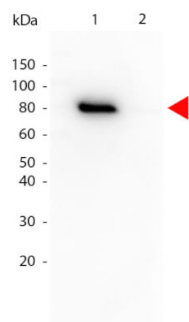
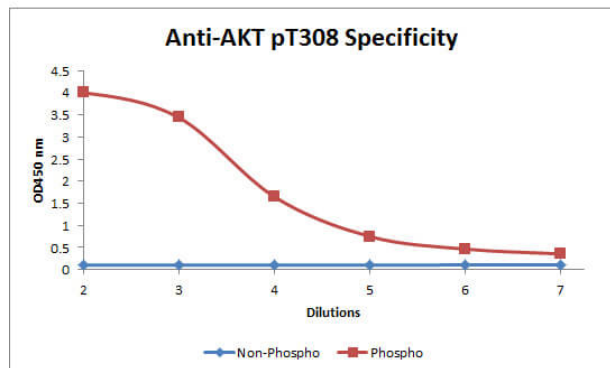
Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry

Immunohistochemistry of Mouse Anti-AKT phospho T308 Biotin Conjugated. Tissue: prostate at 20X (left) and 40X (right). Fixation: FFPE buffered formalin 10% conc. Antigen retrieval: Heat, Citrate pH 6.2. Pressure Cooker, Heat, EDTA pH 9.5 Pressure Cooker. Primary antibody: AKT pT308 biotin at 20 µg/mL for 1 h at RT. Secondary antibody: Streptavidin Conj. HRP at 10 ug/ml. Localization: nuclear and occasionally cytoplasmic. Staining: antibody as precipitated red signal with a hematoxylin purple nuclear counterstain.



ELISA

ELISA of Mouse anti-Akt phospho T308 Biotin Conjugated antibody. Antigen: Unconjugated Akt phospho T308 and AKT non-phospho T308. Coating amount: 0.1 µg per well. Primary antibody: Akt phospho T308 Biotin Conjugated antibody at 5 µg/mL. Dilution series: 3-fold. Mid-point concentration: 5 ng/mL Akt phospho T308 Biotin Conjugated antibody. Secondary antibody: Peroxidase streptavidin secondary antibody at 1:10,000. Substrate: TMB (p/n TMBE-0100)

Western Blot

Western Blot of Mouse anti-Akt phospho T308 Biotin Conjugated antibody. Lane 1: GST tagged AKT1 active recombinant protein. Lane 2: GST tagged AKT1 un-active recombinant protein. Load: 25 ng per lane. Primary antibody: Akt phospho T308 Biotin Conjugated antibody at 1:1,000 for overnight at 4°C. Secondary antibody: HRP Streptavidin secondary antibody at 1:40,000 for 30 min at RT. Block: MB-070 for 30 min at RT. Predicted/Observed size: 79 kDa, 79 kDa for Akt phospho T308. Other band(s): none

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.