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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 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.

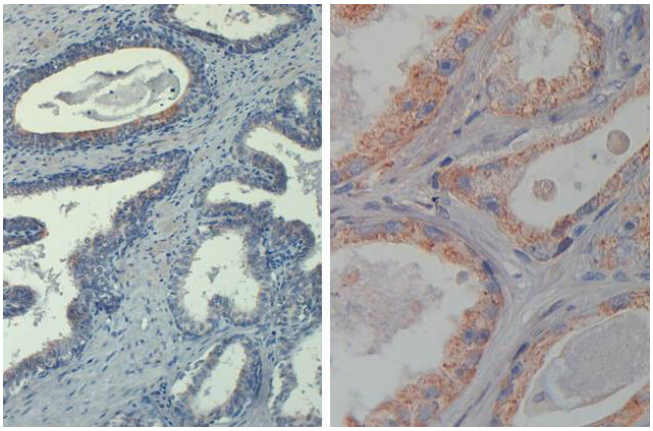
Formulation

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)

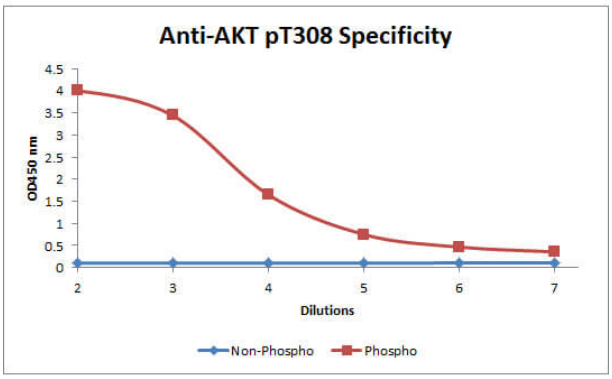
Shipping & Handling

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

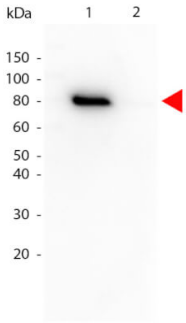


Immunohistochemistry
Immunohistochemistry of Mouse Anti-AKT phospho T308 Biotin Conjugated. Tissue: prostate at 20X (left) and 40X (right). Fixation: FFPE buffered formalin 10% conc. Antigen retrieval: Heat, Citrate pH 6.2. Pressure Cooker , Heat, EDTA pH 9.5 Pressure Cooker. Primary antibody: AKT pT308 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

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