

Datasheet for ABIN1043753  
**anti-AKT1 antibody (pThr308) (Biotin)**

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## Overview

Quantity:	50 µg
Target:	AKT1
Binding Specificity:	pThr308
Reactivity:	Human, Mouse, Rat, Monkey
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This AKT1 antibody is conjugated to Biotin
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS), Immunoprecipitation (IP), Dot Blot (DB)

## Product Details

Purpose:	AKT phospho T308 Antibody Biotin Conjugated
Immunogen:	Immunogen: Anti-AKT pT308 monoclonal antibody was produced by repeated immunizations with a synthetic peptide corresponding to residues surrounding T308 of human AKT1 protein. Immunogen Type: Conjugated Peptide
Clone:	18F3-H11
Isotype:	IgG1 kappa
Cross-Reactivity (Details):	This antibody is specific for human and mouse AKT protein phosphorylated at T308.
Characteristics:	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-

## Product Details

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AKT pT308 Monoclonal Antibody Biotin Conjugated

Purification: Anti-AKT pT308 was purified from concentrated tissue culture supernate by Protein A chromatography.

Labeling Ratio: 10-20

## Target Details

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Target: AKT1

Alternative Name: AKT1 ([AKT1 Products](#))

Background: 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.

Gene ID: 207, 62241011

UniProt: [P31749](#)

Pathways: [PI3K-Akt Signaling](#), [RTK Signaling](#), [TCR Signaling](#), [AMPK Signaling](#), [Interferon-gamma Pathway](#), [TLR Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Response to Water Deprivation](#), [Regulation of Actin Filament Polymerization](#), [Carbohydrate Homeostasis](#), [Glycosaminoglycan Metabolic Process](#), [Cellular Glucan Metabolic Process](#), [Regulation of Muscle Cell Differentiation](#), [Cell-Cell Junction Organization](#), [Regulation of Cell Size](#), [Skeletal Muscle Fiber Development](#), [Regulation of Carbohydrate Metabolic Process](#), [Hepatitis C](#), [Protein targeting to Nucleus](#), [CXCR4-mediated Signaling Events](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#), [Negative Regulation of intrinsic apoptotic Signaling](#), [Thromboxane A2 Receptor Signaling](#), [Signaling of Hepatocyte Growth Factor Receptor](#), [Positive Regulation of fat Cell Differentiation](#), [VEGFR1 Specific Signals](#), [VEGF Signaling](#), [Warburg Effect](#)

## Application Details

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Application Notes: Flow Cytometry Dilution: User Optimized  
Immunohistochemistry Dilution: 20 µg/mL  
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

## Application Details

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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.

Western Blot Dilution: 1:500 - 1:3,000

Immunoprecipitation Dilution: User Optimized

ELISA Dilution: 1:20,000

Other: User Optimized

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Reconstitution: Reconstitution Volume: 50µL  
Reconstitution Buffer: Restore with deionized water (or equivalent)

Concentration: 1.0 mg/mL

Buffer: Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2  
Stabilizer: 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free  
Preservative: 0.01 % (w/v) Sodium Azide

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. 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.

Expiry Date: 12 months

## Publications

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Product cited in: Lawlor, Alessi: "PKB/Akt: a key mediator of cell proliferation, survival and insulin responses?" in: **Journal of cell science**, Vol. 114, Issue Pt 16, pp. 2903-10, (2001) ([PubMed](#)).

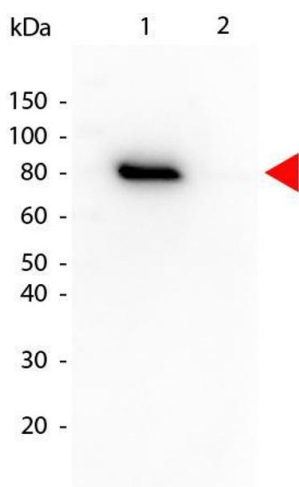
Alessi: "Discovery of PDK1, one of the missing links in insulin signal transduction. Colworth Medal Lecture." in: **Biochemical Society transactions**, Vol. 29, Issue Pt 2, pp. 1-14, (2001) ([PubMed](#)).

Jones, Jakubowicz, Pitossi, Maurer, Hemmings: "Molecular cloning and identification of a serine/threonine protein kinase of the second-messenger subfamily." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 88, Issue 10, pp. 4171-5, (1991) ([PubMed](#)).

Staal: "Molecular cloning of the akt oncogene and its human homologues AKT1 and AKT2: amplification of AKT1 in a primary human gastric adenocarcinoma." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 84, Issue 14, pp. 5034-7, (1987) ([PubMed](#)).

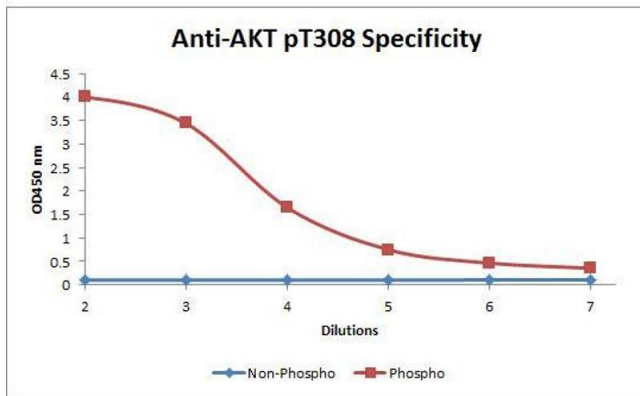
## Images

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### Western Blotting

**Image 1.** 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: ABIN925618 for 30 min at RT. Predicted/Observed size: 79 kDa, 79 kDa for Akt phospho T308. Other band(s): none



## ELISA

**Image 2.** ELISA of Mouse anti-Akt phospho T308 Biotin Conjugated antibody. Antigen: Unconjugated Akt phospho T308 and AKT non-phospho T308. Coating amount: 0.1  $\mu$ g per well. Primary antibody: Akt phospho T308 Biotin Conjugated antibody at 5  $\mu$ g/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