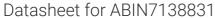
antibodies -online.com





anti-AKT1 antibody (pThr308)



Images



Overview

0.0	
Quantity:	100 μL
Target:	AKT1
Binding Specificity:	pThr308
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AKT1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)
Product Details	
Immunogen:	Peptide sequence around phosphorylation site of threonine 308 (M-K-T(p)-F-C) derived from
	Human Akt.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH
	conjugates. Antibodies were purified by affinity-chromatography using epitope-specific
	phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy usi
Target Details	
Target:	AKT1
Alternative Name:	AKT1 (AKT1 Products)

Background:

Background:

General protein kinase capable of phosphorylating several known proteins. Phosphorylates TBC1D4. Signals downstream of phosphatidylinositol 3-kinase (PI3K) to mediate the effects of various growth factors such as platelet-derived growth factor (PDGF), epidermal growth factor (EGF), insulin and insulin-like growth factor I (IGF-I). Plays a role in glucose transport by mediating insulin-induced translocation of the GLUT4 glucose transporter to the cell surface. Mediates the antiapoptotic effects of IGF-I. Mediates insulin-stimulated protein synthesis by phosphorylating TSC2 at 'Ser-939' and 'Thr-1462', thereby activating mTORC1 signaling and leading to both phosphorylation of 4E-BP1 and in activation of RPS6KB1. Promotes glycogen synthesis by mediating the insulin-induced activation of glycogen synthase.

Tremblay F, et al. (2005) Diabetes, 54(9): 2674-84.

Xu BE, et al. (2005) J Biol Chem, 280(40): 34218-23.

Samuels Y, et al. (2005)Cancer Cell, 7(6): 561-73.

Di Maira G, et al. (2005)Cell Death Differ, 12(6): 668-77.

Aliases: AKT 1 antibody, AKT antibody, AKT1 antibody, AKT1_HUMAN antibody, C AKT antibody, CAKT antibody, MGC99656 antibody, PKB alpha antibody, PKB antibody, PKB-ALPHA antibody, PRKBA antibody, Protein Kinase B Alpha antibody, Protein kinase B antibody, Protooncogene c-Akt antibody, RAC Alpha antibody, RAC antibody, Rac protein kinase alpha antibody, RAC Serine/Threonine Protein Kinase antibody, RAC-alpha serine/threonine-protein kinase antibody, RAC-PK-alpha antibody, v akt murine thymoma viral oncogene homolog 1 antibody, vAKT Murine Thymoma Viral Oncogene Homolog 1 antibody

UniProt:

P31749

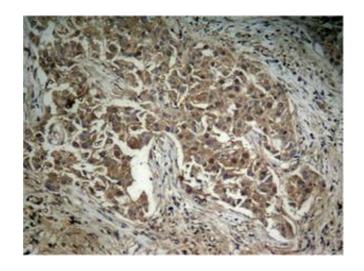
Pathways:

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

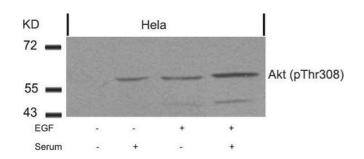
Application Notes:	WB:1:500-1:1000, IHC:1:50-1:100, IF:1:100-1:200,
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Supplied at 1.0 mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



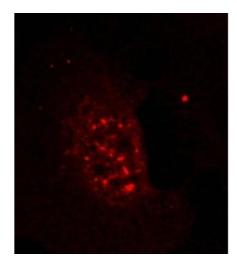
Immunohistochemistry

Image 1. Immunohistochemical analysis of paraffinembedded human lung carcinoma tissue, using Akt (Phospho-Thr308) Antibody.



Western Blotting

Image 2. Western blot analysis of extracts from Hela cells untreated or treated with EGF, serum or both using Akt(Phospho-Thr308) Antibody.



Immunofluorescence

Image 3. Immunofluorescence staining of methanol-fixed Hela cells showing nuclear dot staining using Akt(Phospho-Thr308) Antibody.

Please check the product details page for more images. Overall 5 images are available for ABIN7138831.