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Datasheet for ABIN3029459 anti-AKT1 antibody (AA 115-144)

8 Images



Overview

Quantity:	0.4 mL
Target:	AKT1
Binding Specificity:	AA 115-144
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AKT1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Flow Cytometry (FACS)

Product Details

Immunogen:	A portion of amino acids 115-144 from the human protein was used as the immunogen for this
	AKT1 antibody.
lsotype:	Ig Fraction
Cross-Reactivity (Details):	Expected species reactivity: Mouse, Bovine
Purification:	Antigen affinity purified
Target Details	

Target:	AKT1
Alternative Name:	AKT1 (AKT1 Products)

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Background:	AKT1 is catalytically inactive in serum-starved primary and immortalized fibroblasts. It and the related AKT2 are activated by platelet-derived growth factor. The activation is rapid and specific, and it is abrogated by mutations in the pleckstrin homology domain. It was shown that the activation occurs through phosphatidylinositol 3-kinase. In the developing nervous system AKT is a critical mediator of growth factor-induced neuronal survival. Survival factors can suppress apoptosis in a transcription-independent manner by activating the serine/threonine kinase AKT1, which then phosphorylates and inactivates components of the apoptotic machinery.
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:	The stated application concentrations are suggested starting amounts. Titration of the AKT1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000,IHC (Paraffin): 1:50-1:100,Immunofluorescence: 1:10-1:50,Flow Cytometry: 1:10-1:50
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	In 1X PBS, pH 7.4, with 0.09 % 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.

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Handling

Storage:	-20 °C
Storage Comment:	Store at 4°C for up to one month. For long term, aliquot the AKT1 antibody and store frozen at -

20°C or colder. Avoid repeated freeze-thaw cycles.

Images



Western Blotting

Image 1. AKT1 antibody western blot analysis in HeLa lysate



Immunofluorescence

Image 2. IF testing of AKT1 antibody with MDA-MB435 cells followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Actin filaments stained red; DAPI nuclear counterstain (blue).



Western Blotting

Image 3. Western blot analysis of AKT1 antibody and 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the human gene (2).

Please check the product details page for more images. Overall 8 images are available for ABIN3029459.

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