Datasheet for ABIN5542264

anti-AKT1 antibody (AA 1-150)

7 Images

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Overview

Quantity:	100 µL
Target:	AKT1
Binding Specificity:	AA 1-150
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This AKT1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS)

Product Details

Purpose:	AKT1 Antibody
Immunogen:	Purified recombinant fragment of human AKT1 (AA: 1-150) expressed in E. Coli.
Clone:	1F7G2
Isotype:	IgG1
Purification:	Purified antibody

Target Details

Target:	AKT1
Alternative Name:	AKT1 (AKT1 Products)
Background:	Description: The serine-threonine protein kinase encoded by the AKT1 gene is catalytically

Target Details

	inactive in serum-starved primary and immortalized fibroblasts. AKT1 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 of AKT1. 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. Mutations in this gene have been associated with the Proteus syndrome. Multiple alternatively spliced transcript variants have been found for this gene. Aliases: AKT, PKB, RAC, CWS6, PRKBA, PKB-ALPHA, RAC-ALPHA
Molecular Weight:	55.7kDa
Gene ID:	207
HGNC:	207
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:	ELISA: 1/10000 FCM: 1/200 - 1/400
Restrictions:	For Research Use only

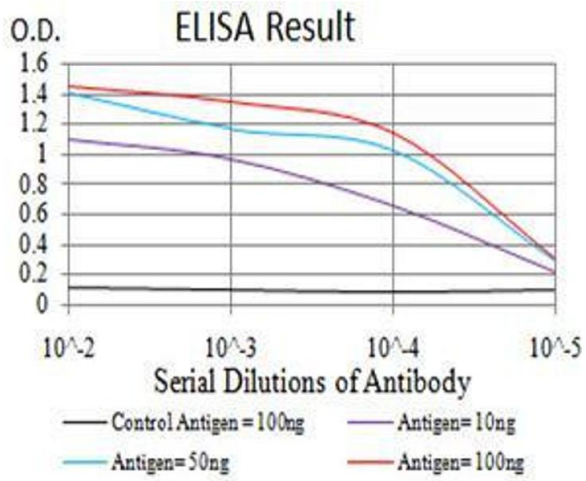
Handling

Format:	Liquid

Handling

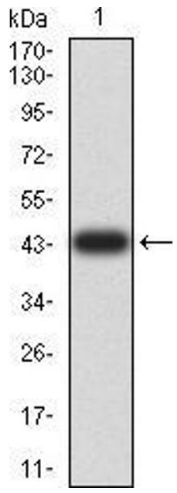
Buffer:	Purified antibody in PBS with 0.05 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Images



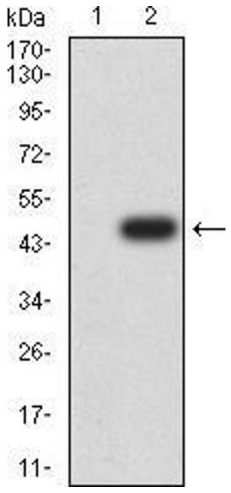
ELISA

Image 1. Black line: Control Antigen (100 ng),Purple line: Antigen (10 ng), Blue line: Antigen (50 ng), Red line:Antigen (100 ng)



Western Blotting

Image 2. Western blot analysis using AKT1 mAb against human AKT1 (AA: 1-150) recombinant protein. (Expected MW is 43.6 kDa)



Western Blotting

Image 3. Western blot analysis using AKT1 mAb against HEK293 (1) and AKT1 (AA: 1-150)-hIgGFc transfected HEK293 (2) cell lysate.

Please check the product details page for more images. Overall 7 images are available for ABIN5542264.