

pan-AKT Antibody

Catalog No: #36716

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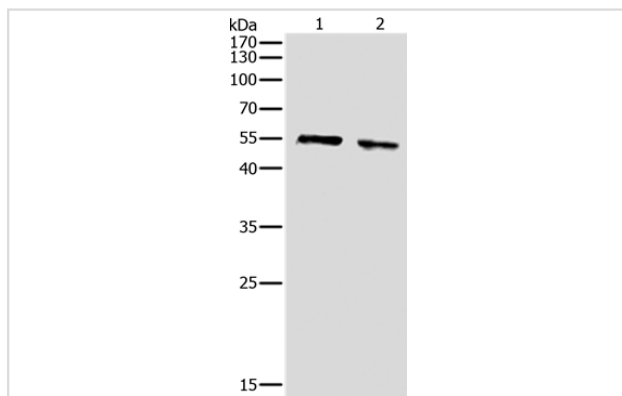
Description

Product Name	pan-AKT Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antigen affinity purification.
Applications	WB
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous levels of total pan-AKT protein.
Immunogen Type	Peptide
Immunogen Description	Synthetic peptide corresponding to a region derived from internal residues of human RAC-alpha serine/threonine-protein kinase
Target Name	pan-AKT
Other Names	PKB; RAC; PRKBA; PKB-ALPHA; RAC-ALPHA
Accession No.	Swiss-Prot#: P31749NCBI Gene ID: 207Gene Accssion: NP_005154
Uniprot	P31749
GeneID	207;
SDS-PAGE MW	56kd
Concentration	2mg/ml
Formulation	Rabbit IgG in pH7.4 PBS, 0.05% NaN ₃ , 40% Glycerol.
Storage	Store at -20°C

Application Details

Western blotting: 1:500-1:1000

Images



Gel: 10%SDS-PAGE
 Lysates (from left to right): NIH/3T3 and Hela cell
 Amount of lysate: 30ug per lane
 Primary antibody: 1/500 dilution
 Secondary antibody dilution: 1/8000
 Exposure time: 10 minutes

Background

The serine-threonine protein kinase encoded by the AKT1 gene is catalytically 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.

Note: This product is for in vitro research use only