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Akt1 Polyclonal Antibody

(Catalog # A71181)

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.

Description
Akt1 Polyclonal Antibody. Unconjugated. Raised in: Rabbit.

Formulation
Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Specificity
Human, Mouse, Rat

Isotype
IgG

Uniprot ID
P31749

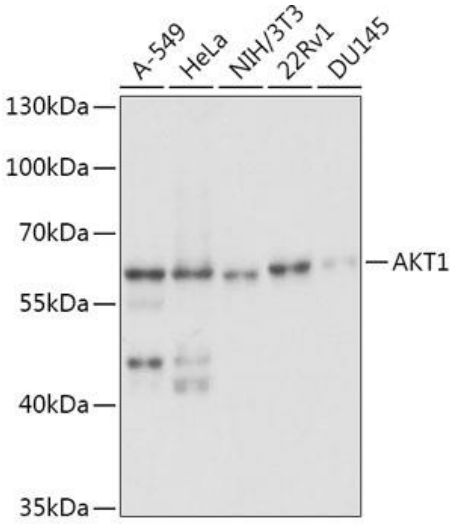
Purification
Affinity Purification

Immunogen
Recombinant fusion protein containing a sequence corresponding to amino acids 1-150 of human Akt1 (NP_005154.2).

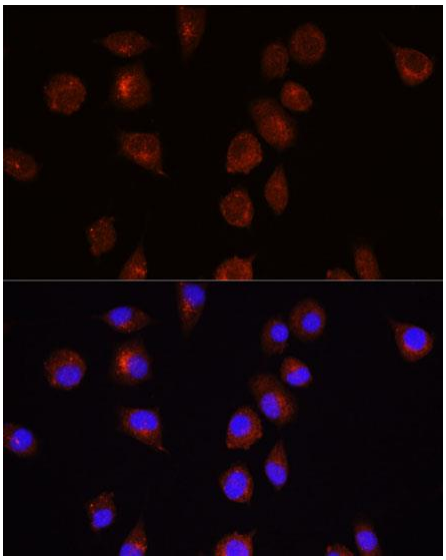
Storage
Shipped at 4°C. Upon receipt, store at -20°C. Avoid freeze / thaw cycles

Alternative Names
AKT1; AKT; CWS6; PKB; PKB-ALPHA; PRKBA; RAC; RAC-ALPHA; AKT serine/threonine kinase 1

Application
WB, IHC, IF; Recommended dilution: WB 1:500 - 1:1000, IHC 1:50 - 1:100, IF 1:50 - 1:100



Western blot analysis of extracts of various cell lines, using Akt1 Polyclonal Antibody at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Exposure time: 5s.



Immunofluorescence analysis of L929 cells using Akt1 Polyclonal Antibody at dilution of 1:100. Blue: DAPI for nuclear staining.

