

Akt1 rabbit pAb

Cat No.: ES1630

For research use only

Overview

Immunogen

Product Name Akt1 rabbit pAb

Host species Rabbit

Applications WB;IHC;IF;ELISA Species Cross-Reactivity Human;Mouse;Rat

Recommended dilutions Western Blot: 1/500 - 1/2000.

Immunohistochemistry: 1/100 - 1/300.

Immunofluorescence: 1/200 - 1/1000. ELISA: 1/40000. Not yet tested in other applications. The antiserum was produced against synthesized

peptide derived from human Akt. AA range:95-144 **Specificity** Akt1 Polyclonal Antibody detects endogenous levels

of Akt1 protein.

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and

0.02% sodium azide.

Store at -20°C. Avoid repeated freeze-thaw cycles.

Protein Name RAC-alpha serine/threonine-protein kinase

Gene Name AKT1

Cellular localization Cytoplasm . Nucleus . Cell membrane . Nucleus after

activation by integrin-linked protein kinase 1 (ILK1). Nuclear translocation is enhanced by interaction with TCL1A. Phosphorylation on Tyr-176 by TNK2 results in its localization to the cell membrane where it is targeted for further phosphorylations on Thr-308 and Ser-473 leading to its activation and the

activated form translocates to the nucleus. Colocalizes with WDFY2 in intracellular vesicles

(PubMed:16792529). .

Purification The antibody was affinity-purified from rabbit

antiserum by affinity-chromatography using

epitope-specific immunogen.

ClonalityPolyclonalConcentration1 mg/mlObserved band56kD



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Human Gene ID
Human Swiss-Prot Number
Alternative Names

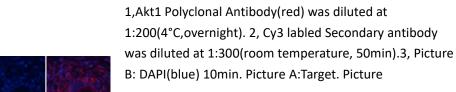
Background

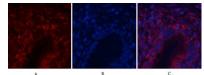
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AKT1; PKB; RAC; RAC-alpha serine/threonine-protein kinase; Protein kinase B; PKB; Protein kinase B alpha; PKB alpha; Proto-oncogene c-Akt; RAC-PK-alpha

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. [provided by RefSeq, Jul 2011]

Immunofluorescence analysis of human-lung tissue.

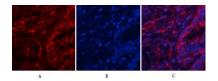




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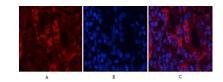




Immunofluorescence analysis of human-lung tissue.

1,Akt1 Polyclonal Antibody(red) was diluted at

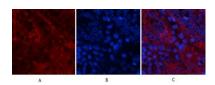
1:200(4°C,overnight). 2, Cy3 labled Secondary antibody
was diluted at 1:300(room temperature, 50min).3, Picture
B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI.
Picture C: merge of A+B



Immunofluorescence analysis of human-stomach tissue.

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Immunofluorescence analysis of human-stomach tissue.

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