



Akt (phospho Tyr315) rabbit pAb

Cat#: orb768040 (Manual)

For research use only. Not intended for diagnostic use.

Product Name Akt (phospho Tyr315) rabbit pAb

Host species Rabbit

Applications IHC;IF;WB;ELISA

Species Cross-Reactivity Human; Mouse; Rat

Recommended dilutions WB 1:500-2000 Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000.

Not yet tested in other applications.

The antiserum was produced against synthesized peptide derived from **Immunogen**

human AKT1/2/3 around the phosphorylation site of Tyr315/316/312. AA

range:281-330

Phospho-Akt (Y315) Polyclonal Antibody detects endogenous levels of Akt **Specificity**

protein only when phosphorylated at Y315.

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium

azide..

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

RAC-alpha serine/threonine-protein kinase/RAC-beta serine/threonine-**Protein Name**

protein kinase/RAC-gamma serine/threonine-protein kinase

Gene Name AKT1/AKT2/AKT3

Cytoplasm . Nucleus . Cell membrane . Nucleus after activation by integrin-Cellular localization

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 whe

The antibody was affinity-purified from rabbit antiserum by affinity-**Purification**

chromatography using epitope-specific immunogen.





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Clonality Polyclonal

Concentration 1 mg/ml

Observed band 56kD

Human Gene ID 207/208/10000

Human Swiss-Prot Number P31749/P31751/O9Y243

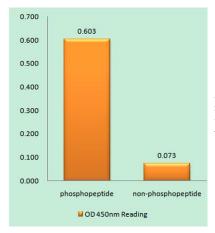
AKT1; PKB; RAC; RAC-alpha serine/threonine-protein kinase; Protein Alternative Names

kinase B; PKB; Protein kinase B alpha; PKB alpha; Proto-oncogene c-Akt; RAC-PK-alpha; AKT2; RAC-beta serine/threonine-protein kinase; Protein

kinase Akt-2; Protein kinase B

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 transcriptionindependent 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]

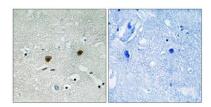


Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using AKT1/2/3 (Phospho-Tyr315/316/312) Antibody





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 $Immunohistochemistry\ analysis\ of\ paraffin-embedded\ human\ brain,\ using\ AKT1/2/3\ (Phospho-Tyr315/316/312)\ Antibody.\ The\ picture\ on\ the\ right\ is\ blocked\ with\ the\ phospho\ peptide.$