

Akt3 Polyclonal Antibody

YN5685 Catalog No:

Human:Mouse:Rat Reactivity:

WB Applications:

Target: Akt3

Fields: >>EGFR tyrosine kinase inhibitor resistance;>>Endocrine

> resistance:>>Platinum drug resistance:>>MAPK signaling pathway:>>ErbB signaling pathway;>>Ras signaling pathway;>>Rap1 signaling pathway;>>cGMP-PKG signaling pathway;>>cAMP signaling pathway;>>Chemokine signaling pathway;>>HIF-1 signaling pathway;>>FoxO signaling pathway;>>Sphingolipid signaling pathway;>>Phospholipase D signaling pathway;>>Autophagy animal;>>mTOR signaling pathway;>>PI3K-Akt signaling pathway;>>AMPK signaling pathway;>>Apoptosis;>>Longevity regulating pathway;>>Longevity regulating pathway - multiple species;>>Cellular senescence;>>Adrenergic signaling in cardiomyocytes;>>VEGF signaling pathway;>>Apelin signaling pathway:>>Osteoclast differentiation:>>Focal adhesion:>>Signaling pathways

regulating pluripotency of stem cells;>>Platelet activation;>>Neutrophil

extracellular trap formation;>>Toll-like receptor signaling pathway;>>C-type lectin receptor signaling pathway;>>JAK-STAT signaling pathway;>>T cell recept

Gene Name: AKT3

Protein Name: RAC-gamma serine/threonine-protein kinase

Human Gene Id: 10000

Human Swiss Prot Q9Y243

No:

Mouse Gene Id: 23797

Mouse Swiss Prot

Q9WUA6

No:

Rat Gene Id: 29414

Rat Swiss Prot No: Q63484



Immunogen: Recombinant Protein of RAC-gamma serine/threonine-protein kinase

Specificity: The antibody detects endogenous Akt3 protein.

Formulation: PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and

50% Glycerol.

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:1000-2000

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

chromatography using epitope-specific immunogen.

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 56kD

Cell Pathway: Akt_PKB;MAPK_ERK_Growth;MAPK_G_Protein;ErbB_HER;Chemokine;mTO

R;Apoptosis Inhibition;Apoptosis Mitochondrial;Apoptosis Overview;VEGF;Foc

al adhesion; Tight junction; Toll Like; Jak STAT; T Cell Receptor; B C

Background: The protein encoded by this gene is a member of the AKT, also called PKB,

serine/threonine protein kinase family. AKT kinases are known to be regulators of cell signaling in response to insulin and growth factors. They are involved in a wide variety of biological processes including cell proliferation, differentiation, apoptosis, tumorigenesis, as well as glycogen synthesis and glucose uptake. This kinase has been shown to be stimulated by platelet-derived growth factor (PDGF), insulin, and insulin-like growth factor 1 (IGF1). Alternatively splice

transcript variants encoding distinct isoforms have been described. [provided by

RefSeq, Jul 2008],

Function: catalytic activity:ATP + a protein = ADP + a phosphoprotein.,domain:Binding of

the PH domain to the phosphatidylinositol 3-kinase alpha (PI(3)K) results in its targeting to the plasma membrane.,enzyme regulation:Two specific sites, one in the kinase domain (Thr-305) and the other in the C-terminal regulatory region (Ser-472), need to be phosphorylated for its full activation.,function:IGF-1 leads to the activation of AKT3, which may play a role in regulating cell survival. Capable of phosphorylating several known proteins. Truncated isoform 2/PKB gamma 1 without the second serine phosphorylation site could still be stimulated but to a lesser extent.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the protein kinase superfamily, similarity:Belongs to the

protein kinase superfamily. AGC Ser/Thr protein kinase family. RAC

subfamily., similarity: Contains 1 AG

Subcellular Nucleus . Cytoplasm . Membrane ; Peripheral membrane protein . Membrane-

2/3



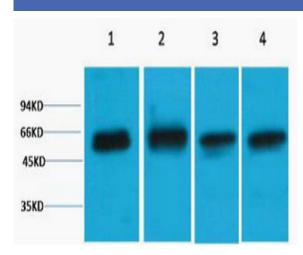
Location:

associated after cell stimulation leading to its translocation.

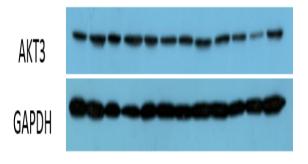
Expression:

In adult tissues, it is highly expressed in brain, lung and kidney, but weakly in heart, testis and liver. In fetal tissues, it is highly expressed in heart, liver and brain and not at all in kidney.

Products Images



Western blot analysis of 1) Hela, 2) 3T3, 3) Mouse Brain, 4) Rat Brain tissue, diluted at 1:2000. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



The picture was kindly provided by our customer. Primary antibody was diluted at 1:5000. Loading control antibody was diluted at 1:20000