

产品货号: APRab04218

产品概述 (Summary)

产品名称 (Production Name) Akt1/3 (phospho Tyr437/434) Rabbit Polyclonal Antibody

描述 (Description) Rabbit polyclonal Antibody

宿主 (Host) Rabbit

应用 (Application)WB,IHC,ICC/IF,ELISA种属反应性 (Reactivity)Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation) Unconjugated 修饰 (Modification) Phosphorylated

同种型 (Isotype) lgG

克隆 (Clonality) Polyclonal 形式 (Form) Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid 存放说明 (Storage)

freeze/thaw cycles.

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% 储存溶液 (Buffer)

New type preservative N.

纯化方式 (Purification) Affinity purification

免疫原信息 (Immunogen)

别名 (Alternative Names)

基因名 (Gene Name) AKT1/AKT3

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;

AKT3; PKBG; RAC-gamma serine/threonine-protein kinase; Protein kinase Akt-

3; Protein ki

基因 ID (Gene ID) 207/10000

P31749/Q9Y243.The antiserum was produced against synthesized peptide

蛋白 ID (SwissProt ID) derived from human AKT1/3 around the phosphorylation site of Tyr437/434.

AA range:406-455

产品应用 (Application)

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产品名称: Akt1/3 (phospho Tyr437/434) Rabbit Polyclona EnkiLife

Antibody

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蛋白分子量 (Molecular Weight) 56kDa

研究背景 (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 factorinduced 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]catalytic activity:ATP + a protein = ADP + a phosphoprotein, disease: Defects in AKT1 are associated with breast cancer (BC) [MIM:114480]. BC is an extremely common malignancy, affecting one in eight women during their lifetime., disease: Defects in AKT1 are associated with colorectal cancer (CRC) [MIM:114500], disease: Defects in AKT1 are associated with susceptibility to ovarian cancer [MIM:604370]; also called susceptibility to familial breast-ovarian cancer type 1 (BROVCA1), domain: Binding of the PH domain to the phosphatidylinositol 3-kinase alpha (PI(3)K) results in its targeting to the plasma membrane, domain: The AGC-kinase Cterminal mediates interaction with THEM4.,enzyme regulation:Three specific sites, one in the kinase domain (Thr-308) and the two other ones in the C-terminal regulatory region (Ser-473 and Tyr-474), need to be phosphorylated for its full activation., function: General protein kinase capable of phosphorylating several known proteins. Phosphorylates TBC1D4. Signals downstream of phosphatidylinositol 3-kinase (PI(3)K) to mediate the effects of various growth factors such as platelet-derived growth factor (PDGF), epidermal growth factor (EGF), insulin and insulin-like growth factor I (IGF-I). Plays a role in glucose transport by mediating insulin-induced translocation of the GLUT4 glucose transporter to the cell surface. Mediates the antiapoptotic effects of IGF-I. Mediates insulin-stimulated protein synthesis, partly by playing a role in both insulin-induced phosphorylation of 4E-BP1 and in insulin-induced activation of p70 S6 kinase. Promotes glycogen synthesis by mediating the insulin-induced activation of glycogen synthase., PTM: Phosphorylation on Thr-308, Ser-473 and Tyr-474 is required for full activity. Ser-473 phosphorylation by the Rictor-mTor complex favors Thr-308 phosphorylation by PDPK1. Ser-473 phosphorylation is enhanced by interaction with AGAP2 isoform 2 (PIKE-A). Ser-473 phosphorylation is enhanced in focal cortical dysplasias with Taylor-type balloon cells.,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 AGC-kinase C-terminal domain., similarity: Contains 1 PH domain., similarity: Contains 1 protein kinase domain., subcellular location: Nucleus after activation by integrin-linked protein kinase 1 (ILK1). Nuclear translocation is enhanced by interaction with TCL1A., subunit: Interacts with AGAP2 isoform 2 (PIKE-A) in the presence of quanine nucleotides. The C-terminus interacts with CCDC88A/GRDN and THEM4. Interacts with AKTIP. Interacts (via PH

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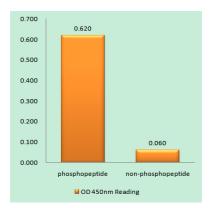


domain) with MTCP1, TCL1A AND TCL1B. Interacts with CDKN1B; the interaction phosphorylates CDKN1B promoting 14-3-3 binding and cell-cycle progression., tissue specificity: In all human cell types so far analyzed.,

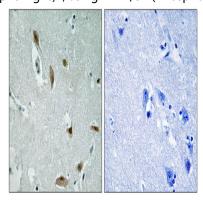
研究领域(Research Area)

Regulation Microtubule; T Cell Receptor; Regulates Angiogenesis; SAPK JNK; Stem cell pathway; Insulin Receptor; Toll Like; ErbB/HER; AMPK; MAPK ERK Growth; MAPK G Protein; B Cell Antigen; Adherens Junction; PI3K/Akt; mTOR

图片 (Image Data)



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using AKT1/3 (Phospho-Tyr437/434) Antibody

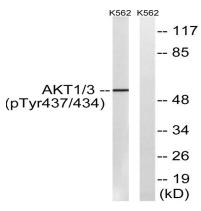


Immunohistochemistry analysis of paraffin-embedded human brain, using AKT1/3 (Phospho-Tyr437/434) Antibody. The picture on the right is blocked with the phospho peptide.

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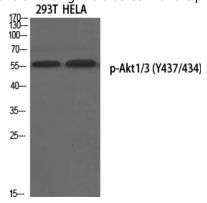


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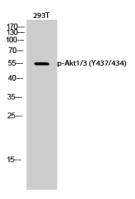


Western blot analysis of lysates from K562 cells treated with insulin 0.01U/ml 15 ', using AKT1/3 (Phospho-Tyr437/434)

Antibody. The lane on the right is blocked with the phospho peptide.



Western Blot analysis of various cells using Phospho-Akt1/3 (Y437/434) Polyclonal Antibody diluted at 1: 1000

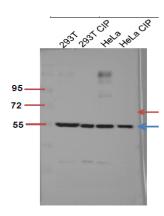


Western Blot analysis of 293T cells using Phospho-Akt1/3 (Y437/434) Polyclonal Antibody diluted at 1: 1000

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The picture was kindly provided by our customer, antibody was diluted at 1:500

注意事项 (Note)

For research use only .

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