Product Name: Akt2 Rabbit Polyclonal Antibody
Catalog #: APRab06744

Summary

Production Name	Akt2 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IHC,WB,
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	AKT2
Alternative Names	AKT2; RAC-beta serine/threonine-protein kinase; Protein kinase Akt-2; Protein kinase B beta; PKB beta; RAC-PK-beta
Gene ID	208.0
SwissProt ID	P31751.The antiserum was produced against synthesized peptide derived from human Akt2. AA range:432-481

Application

Dilution Ratio	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000. Not yet tested in other applications.
Molecular Weight	56kD

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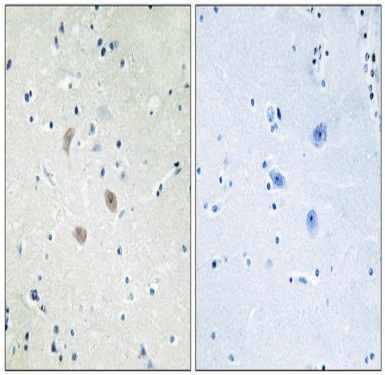
Background

This gene is a putative oncogene encoding a protein belonging to a subfamily of serine/threonine kinases containing SH2-like (Src homology 2-like) domains. The gene was shown to be amplified and overexpressed in 2 of 8 ovarian carcinoma cell lines and 2 of 15 primary ovarian tumors. Overexpression contributes to the malignant phenotype of a subset of human ductal pancreatic cancers. The encoded protein is a general protein kinase capable of phophorylating several known proteins. [provided by RefSeq, Jul 2008],catalytic activity:ATP + a protein = ADP + a phosphoprotein.,disease:Alterations of AKT2 may contribute to the pathogenesis of ovarian carcinomas.,enzyme regulation:Two specific sites, one in the kinase domain (Thr-309) and the other in the C-terminal regulatory region (Ser-474), need to be phosphorylated for its full activation.,function:General protein kinase capable of phosphorylating several known proteins.,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.,subunit:Interacts (via PH domain) with MTCP1, TCL1A AND TCL1B.,tissue specificity:In all human cell types so far analyzed.,

Research Area

Regulation_Microtubule; Stem cell pathway; T_Cell_Receptor; Regulates Angiogenesis; Insulin Receptor; Toll_Like; ErbB/HER; AMPK; MAPK_ERK_Growth;MAPK_G_Protein; B_Cell_Antigen; Adherens_Junction; PI3K/Akt; mTOR

Image Data



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using Akt2 Antibody. The picture on the right is blocked with the synthesized peptide.

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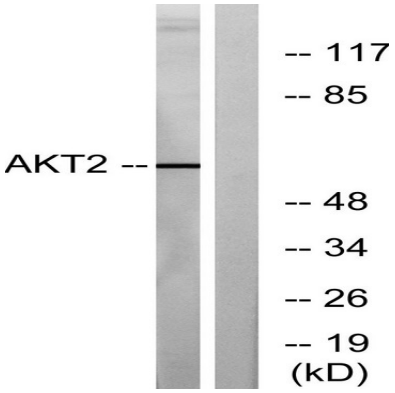
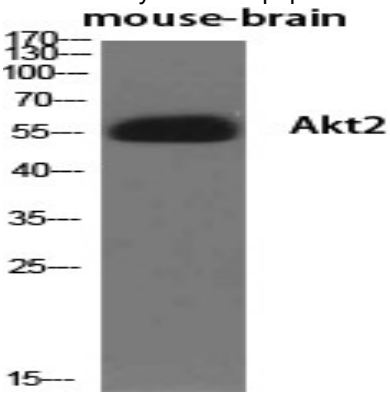
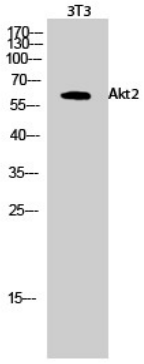


Western blot analysis of lysates from A2780 cells, treated with TNF-α, using Akt2 Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using Akt2 Polyclonal Antibody diluted at 1：500



Western Blot analysis of 3T3 cells using Akt2 Polyclonal Antibody diluted at 1：500

Note

For research use only.