

**Product Name: Akt2 (phospho Ser474) Rabbit Polyclonal Antibody**  
**Catalog #: APRab04219**

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## Summary

<b>Production Name</b>	Akt2 (phospho Ser474) Rabbit Polyclonal Antibody
<b>Description</b>	Rabbit Polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	ELISA,IHC,WB,
<b>Reactivity</b>	Human,Mouse,Rat

## Performance

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

## Immunogen

<b>Gene Name</b>	AKT2
<b>Alternative Names</b>	AKT2; RAC-beta serine/threonine-protein kinase; Protein kinase Akt-2; Protein kinase B beta; PKB beta; RAC-PK-beta
<b>Gene ID</b>	208.0
<b>SwissProt ID</b>	P31751.The antiserum was produced against synthesized peptide derived from human Akt2 around the phosphorylation site of Ser474. AA range:432-481

## Application

<b>Dilution Ratio</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000..
<b>Molecular Weight</b>	56kD

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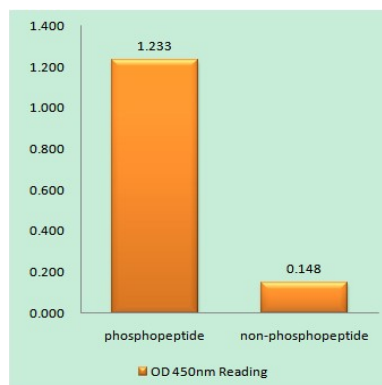
## Background

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 phosphorylating 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 MTC1, TCL1A AND TCL1B.,tissue specificity:In all human cell types so far analyzed.,

## Research Area

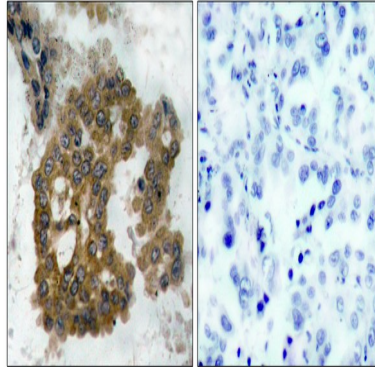
Regulation\_Microtubule; Stem cell pathway; T\_Cell\_Receptor; Regulates Angiogenesis; Insulin Receptor; Toll\_Like; ErbB/HER; AMPK; MAPK\_ERK\_Growth;MAPK\_G\_Protein; B\_Cell\_Antigen; Adherens\_Junction; PI3K/Akt; mTOR

## Image Data

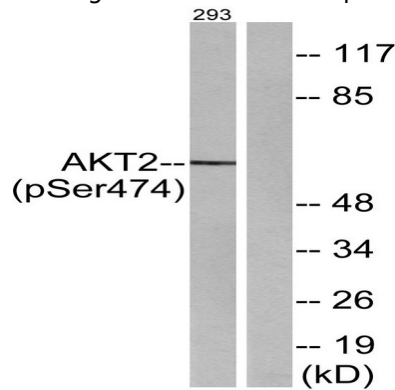


Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right) , using Akt2 (Phospho-Ser474) Antibody

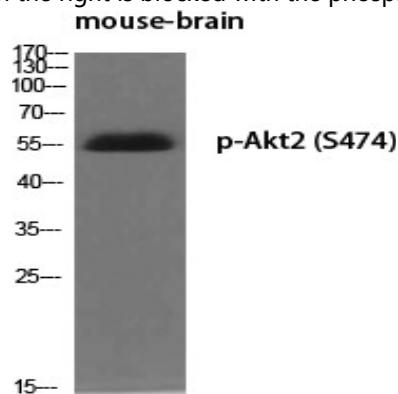
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Immunohistochemistry analysis of paraffin-embedded human lung carcinoma, using Akt2 (Phospho-Ser474) Antibody.  
The picture on the right is blocked with the phospho peptide.



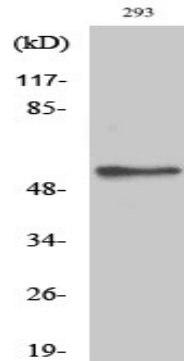
Western blot analysis of lysates from 293 cells treated with EGF 200ng/ml 30', using Akt2 (Phospho-Ser474) Antibody.  
The lane on the right is blocked with the phospho peptide.



Western Blot analysis of various cells using Phospho-Akt2 (S474) Polyclonal Antibody diluted at 1: 500

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Western Blot analysis of 293 cells using Phospho-Akt2 (S474) Polyclonal Antibody diluted at 1: 500

**Note**

For research use only.