



Rabbit Anti-AKT2 antibody

SL10724R

Product Name:	AKT2
Chinese Name:	蛋白激酶B2抗体
Alias:	C AKT; MGC9965; Oncogene AKT1; PKB; PRKBA; Protein Kinase B Alpha; RAC; RAC PK Alpha; RAC Serine/Threonine Protein Kinase; vAKT Murine Thymoma Viral Oncogene Homolog 1; AKT2_HUMAN; HIHGHH; AKT 2; AKT-2; Akt2; PKB beta; PKB-beta; PKBB; PKBBETA; PRKBB; Protein kinase Akt 2; Protein kinase Akt-2; Protein kinase B beta; RAC BETA; RAC beta serine threonine protein kinase; RAC PK beta; Rac protein kinase beta; Rac protein kinase beta; RAC-BETA; RAC-beta serine/threonine-protein kinase; RAC-PK-beta; V AKT Murine Thymoma Viral Oncogene Homolog 2.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Mouse,Rat,Pig,Cow,Horse,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	56kDa
Cellular localization:	The nucleuscytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human AKT2:21-120/481
Isotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed

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].

Function:

IGF-1 leads to the activation of AKT3, which may play a role in regulating cell survival. Capable of phosphorylating several known proteins.

Subunit:

Interacts (via PH domain) with TCL1A; this enhances AKT3 phosphorylation and activation. Interacts with TRAF6.

Post-translational modifications:

Phosphorylation on Thr-305 and Ser-472 is required for full activity. Phosphorylated upon DNA damage, probably by ATM or ATR.

Ubiquitinated. When fully phosphorylated and translocated into the nucleus, undergoes 'Lys-48'-polyubiquitination catalyzed by TTC3, leading to its degradation by the proteasome.

Similarity:

Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. RAC subfamily.

Contains 1 AGC-kinase C-terminal domain.

Contains 1 PH domain.

Contains 1 protein kinase domain.

SWISS:

P31751

Gene ID:

208

Database links:

[Entrez Gene: 208](#)Human

[Entrez Gene: 11652](#)Mouse

[Entrez Gene: 25233](#)Rat

[Omim: 164731](#)Human

[SwissProt: P31751](#)Human

Product Detail:

[SwissProt: Q60823](#)Mouse

[SwissProt: P47197](#)Rat

[Unigene: 631535](#)Human

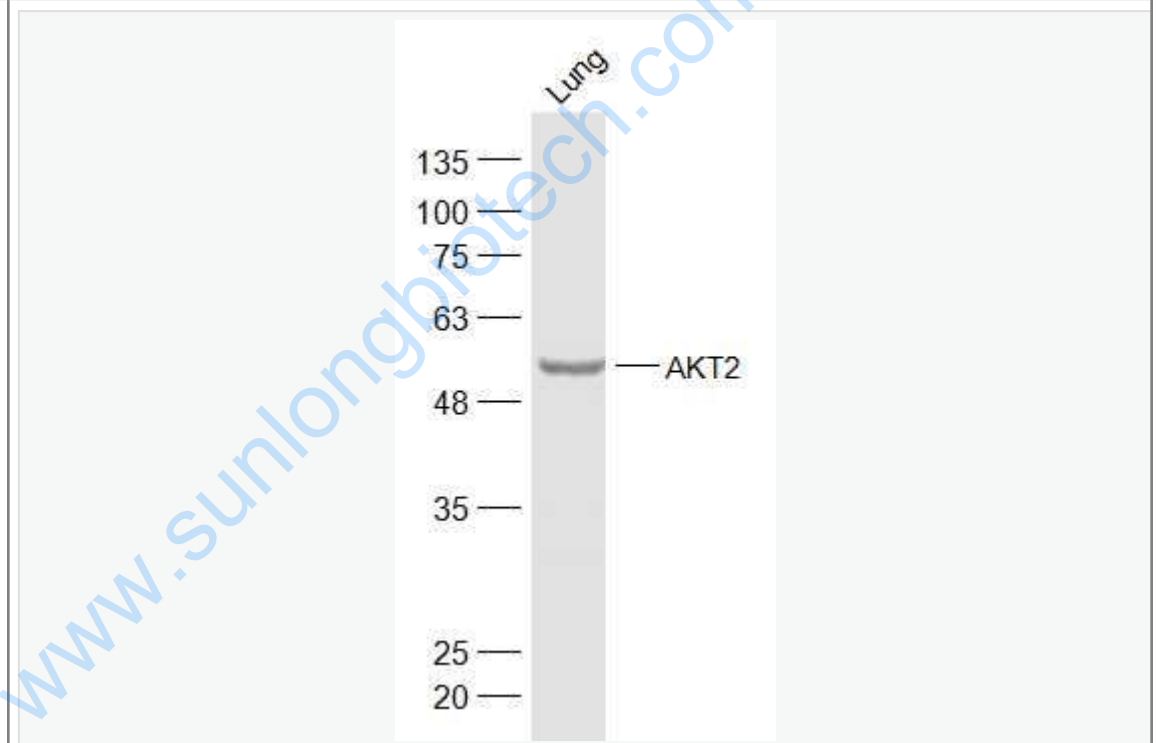
[Unigene: 177194](#)Mouse

[Unigene: 87066](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

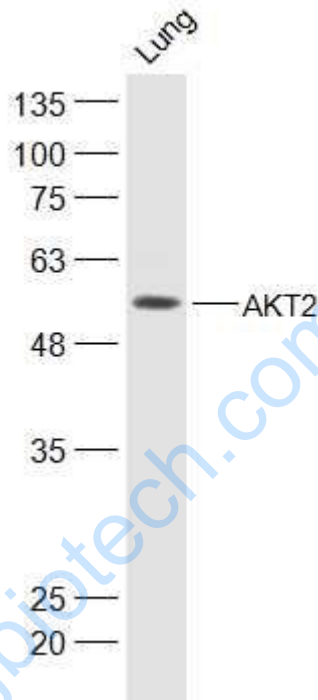
Lung (Rat) Lysate at 40 ug

Primary: Anti-AKT2 (SL10724R) at 1/500 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 56 kD

Observed band size: 56 kD



Sample:

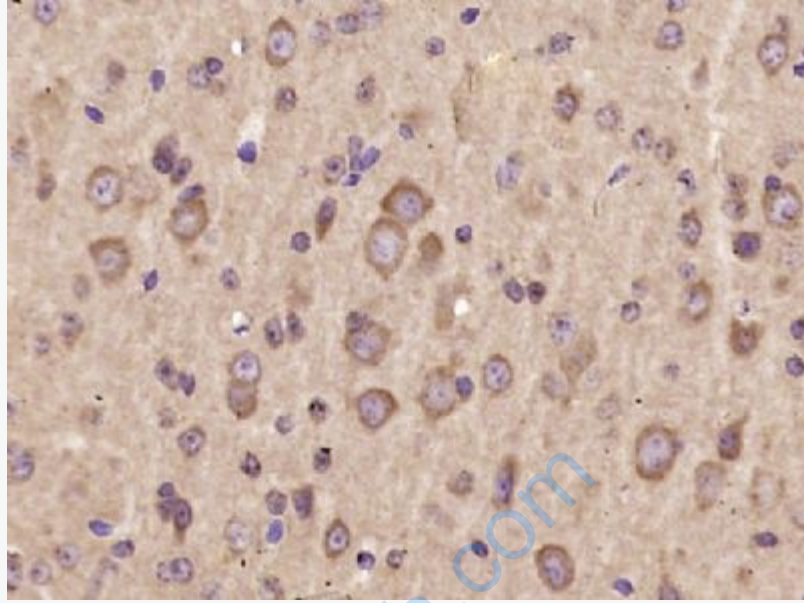
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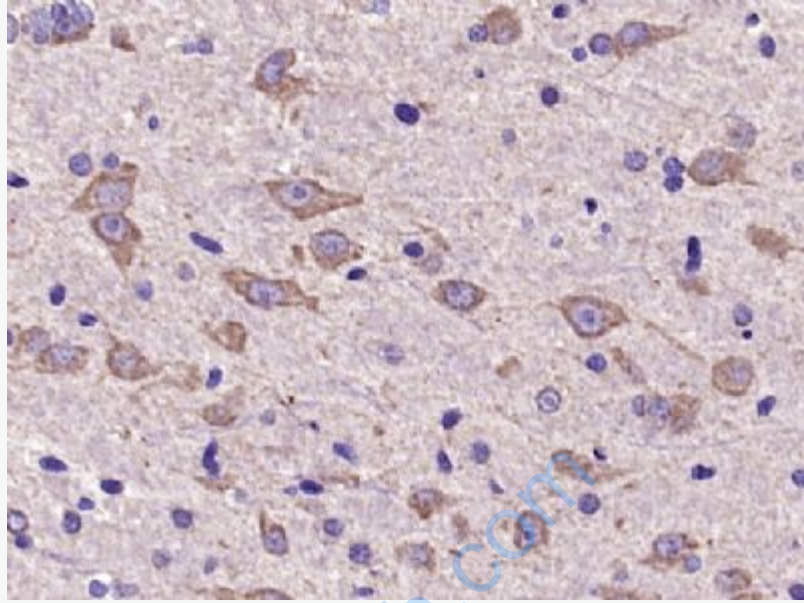
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Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by microwave in sodium citrate buffer (pH6.0) ; Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (3% BSA) at RT for 30min; Antibody incubation with (AKT2) Polyclonal Antibody, Unconjugated (SL10724R) at 1:400 overnight at 4°C, followed by conjugation to the secondary antibody (labeled with HRP) and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by microwave in sodium citrate buffer (pH6.0) ; Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (3% BSA) at RT for 30min; Antibody incubation with (AKT2) Polyclonal Antibody, Unconjugated (SL10724R) at 1:400 overnight at 4°C, followed by conjugation to the secondary antibody (labeled with HRP) and DAB staining.