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Rabbit Anti-phospho-Akt (Thr308) antibody

SL2720R

Product Name:	phospho-Akt (Thr308)
Chinese Name:	磷酸化蛋白激酶B抗体
Alias:	AKT (phospho T308); p-AKT (phospho T308); Akt(Phospho-Thr308); Akt(Phospho T308); C AKT; MGC9965; Oncogene AKT1; PKB; PRKBA; Protein Kinase B Alpha; RAC Alpha; RAC; RAC PK Alpha; RAC Serine/Threonine Protein Kinase; vAKT Murine Thymoma Viral Oncogene Homolog 1; AKT1_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1μg /testIF=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 Synthesised phosphopeptide derived from human Akt around the phosphorylation site of Thr308:MK(p-T)FC
Lsotype:	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
Product Detail:	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 factor-induced 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]

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

Subcellular Location:
Cytoplasm. Nucleus. Cell membrane. Note=Nucleus after activation by integrin-linked protein kinase 1 (ILK1). Nuclear translocation is enhanced by interaction with TCL1A. Phosphorylation on Tyr-176 by TNK2 results in its localization to the cell membrane where it is targeted for further phosphorylations on Thr-308 and Ser-473 leading to its activation and the activated form translocates to the nucleus.

Tissue Specificity:
Widely expressed. Low levels found in liver with slightly higher levels present in thymus and testis.

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:
P31749

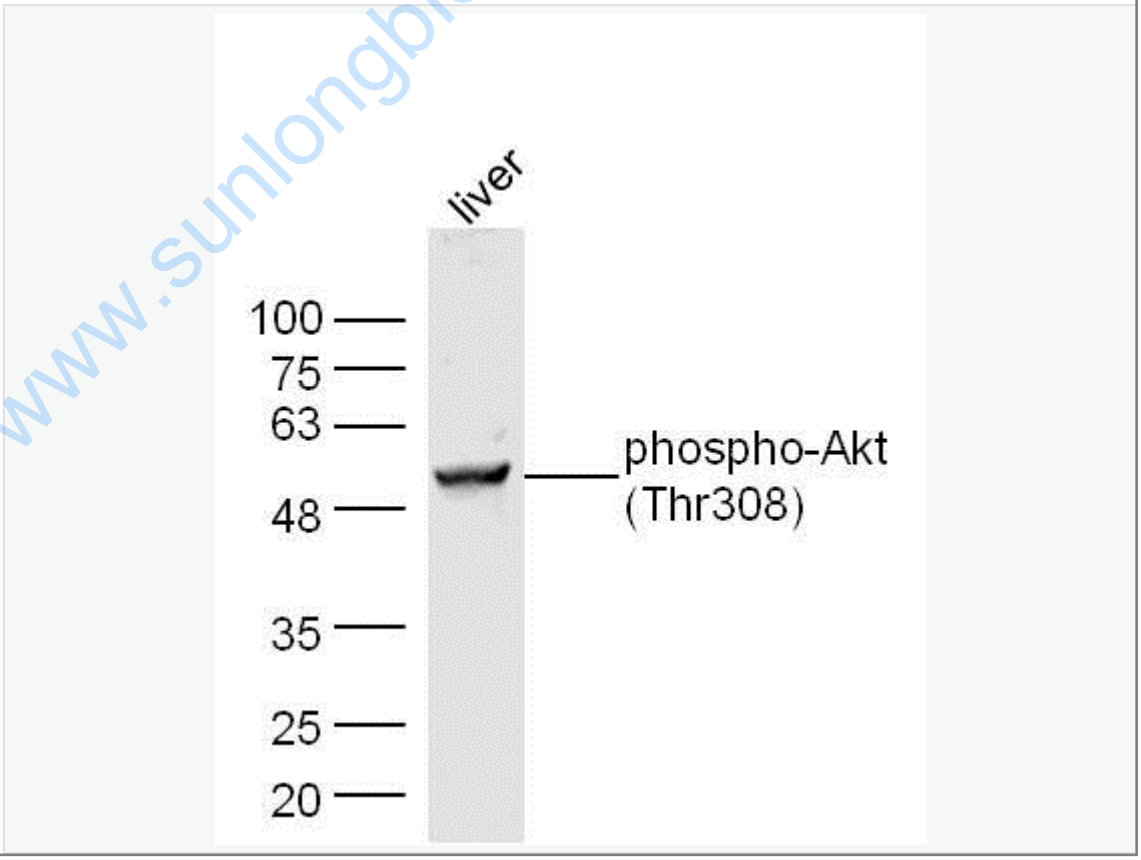
Gene ID:
207

Database links:

Entrez Gene: 207 Human

Entrez Gene: 11651 Mouse

Entrez Gene: 24185 Rat

	Omim: 164730 Human SwissProt: O57513 Chicken SwissProt: P31749 Human SwissProt: P31750 Mouse SwissProt: P47196 Rat Unigene: 525622 Human Unigene: 6645 Mouse Unigene: 11422 Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	

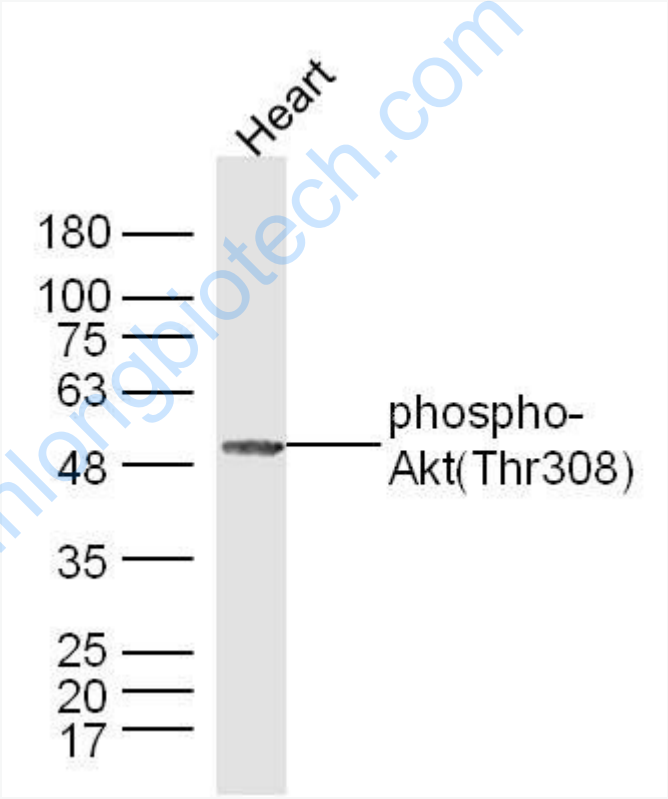
Sample: Liver (Mouse) Lysate at 30 ug

Primary: Anti- phospho-Akt（Thr308）(SL2720R) at 1/300 dilution

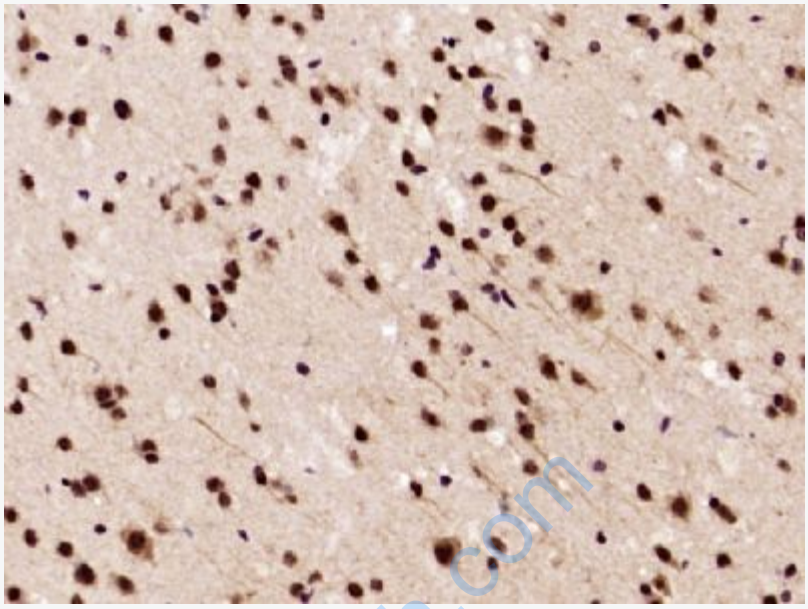
Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/10000 dilution

Predicted band size: 56 kD

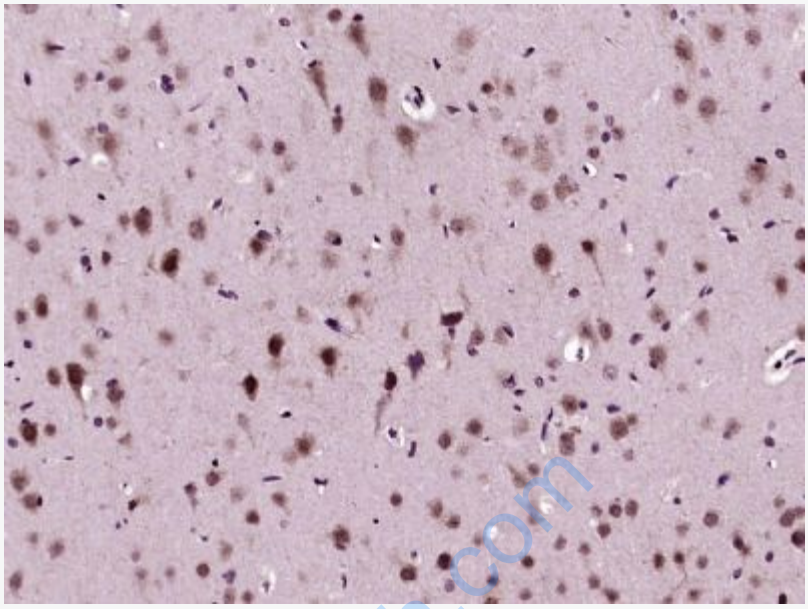
Observed band size: 56 kD



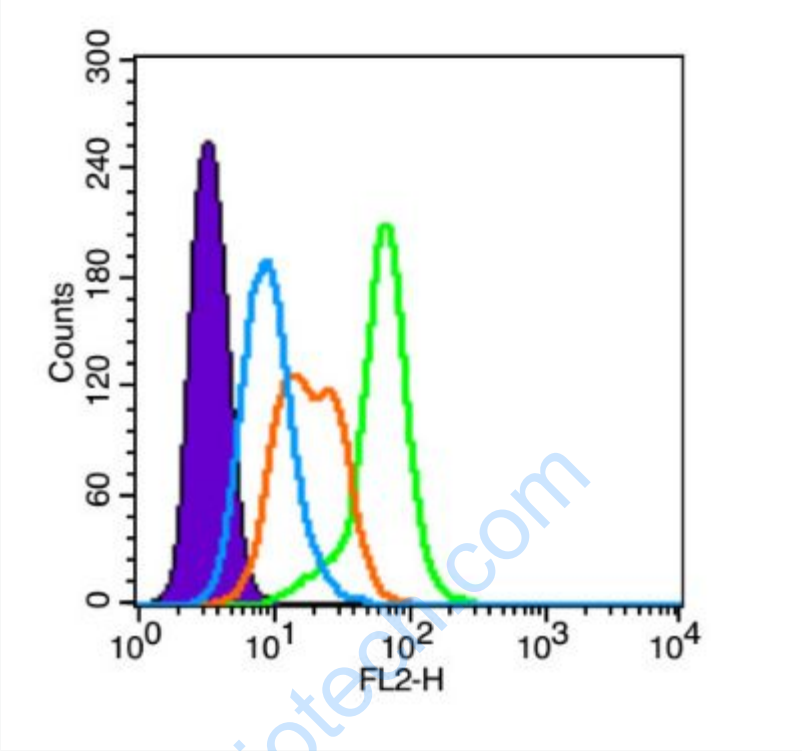
Western blot analysis of extracts from Heart,using phospho-Akt(thr308) Antibody.



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-Akt (Thr308)) Polyclonal Antibody, Unconjugated (SL2720R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-Akt (Thr308)) Polyclonal Antibody, Unconjugated (SL2720R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Blank control (blue line): A431(Black).

Primary Antibody (green line): Rabbit Anti-phospho-Akt (Thr308) antibody (SL2720R)

Dilution: 1µg /10^6 cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE(Jackson lab)

Dilution: 1µg /test.

Protocol

The cells were fixed with 4% paraformaldehyde (10 min) , then permeabilized with 90% ice-cold methanol for 20 min on ice. Cells stained with Primary Antibody for 30 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions followed by the antibody for 15 min at room

	temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.