

## ARG63666 anti-Akt 3 antibody

Package: 100 µg  
Store at: -20°C

### Summary

Product Description	Goat Polyclonal antibody recognizes Akt 3
Tested Reactivity	Hu, Ms, Rat
Predict Reactivity	Cow, Dog
Tested Application	IHC-P, WB
Specificity	This antibody is expected to recognise an epitope corresponding to aa 119-133 of both isoforms of human AKT3 protein. This antibody does not cross-react with human AKT1/2. Reported variants represent identical protein (NP_859029.1; NP_001193658.1).
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	Akt 3
Species	Human
Immunogen	CSPTSQIDNIGEEEM
Conjugation	Un-conjugated
Alternate Names	Protein kinase Akt-3; PKB-GAMMA; PKB gamma; RAC-gamma serine/threonine-protein kinase; STK-2; PRKBG; RAC-gamma; MPPH2; MPPH; Protein kinase B gamma; EC 2.7.11.1; PKBG; RAC-PK-gamma

### Application Instructions

Application table	Application	Dilution
	IHC-P	5 µg/ml
	WB	1 - 3 µg/ml
Application Note	WB: Recommend incubate at RT for 1h. IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

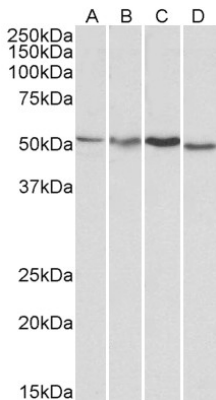
Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

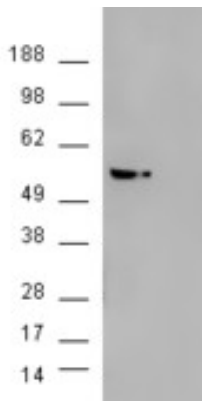
Background	The protein encoded by this gene is a member of the AKT, also called PKB, serine/threonine protein kinase family. AKT kinases are known to be regulators of cell signaling in response to insulin and growth factors. They are involved in a wide variety of biological processes including cell proliferation, differentiation, apoptosis, tumorigenesis, as well as glycogen synthesis and glucose uptake. This kinase has been shown to be stimulated by platelet-derived growth factor (PDGF), insulin, and insulin-like growth factor 1 (IGF1). Alternatively splice transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Jul 2008]
Research Area	Cancer antibody; Signaling Transduction antibody
Calculated Mw	56 kDa
PTM	Phosphorylation on Thr-305 and Ser-472 is required for full activity. Ubiquitinated. When fully phosphorylated and translocated into the nucleus, undergoes 'Lys-48'-polyubiquitination catalyzed by TTC3, leading to its degradation by the proteasome. O-GlcNAcylation at Thr-302 and Thr-309 inhibits activating phosphorylation at Thr-305 via disrupting the interaction between AKT and PDK1.

## Images



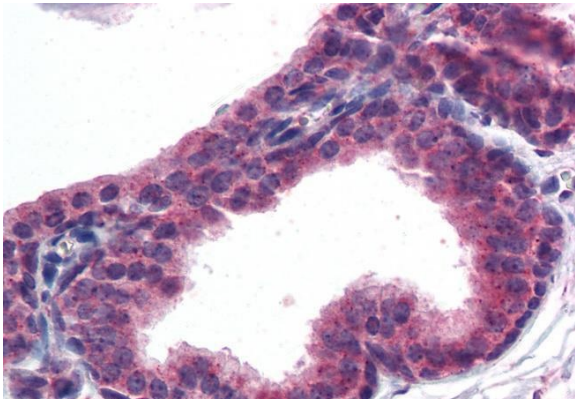
ARG63666 anti-Akt 3 antibody WB image

Western blot: HepG2 (A), Jurkat (B), Mouse Brain (C) and Rat Brain (D) lysates (35 µg protein in RIPA buffer) stained with ARG63666 anti-Akt 3 antibody at 1 µg/ml dilution.



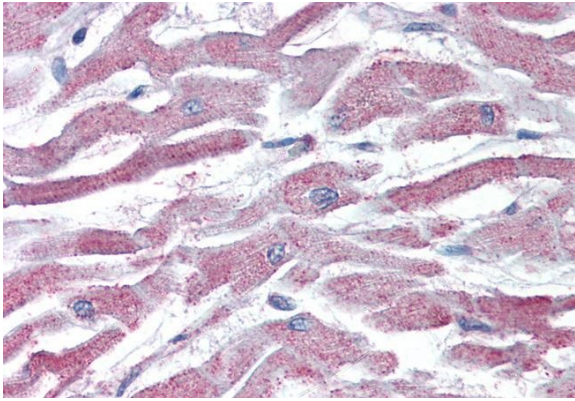
ARG63666 anti-Akt 3 antibody WB image

Western blot: 1). AKT3 (RC224750) expressing plasmid transfected; 2) Mock transfection HEK293 cell lysate standed with ARG63666 anti-Akt 3 antibody.



ARG63666 anti-Akt 3 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human prostate tissue.  
Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG63666 anti-Akt 3 antibody at 5  $\mu$ g/ml dilution followed by AP-staining.



ARG63666 anti-Akt 3 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human heart tissue.  
Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG63666 anti-Akt 3 antibody at 5  $\mu$ g/ml dilution followed by AP-staining.