

Rabbit AKT1 Polyclonal Antibody | anti-AKT1 antibody

AKT1 antibody - N-terminal region

CATALOG # AAA201690	HOST Rabbit	REACTIVITY Cow, Dog, Goat, Human, Mouse, Pig, Rat, Sheep	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

AKT1; Polyclonal Antibody; AKT1 antibody - N-terminal region; anti-AKT1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Cow, Dog, Goat, Human, Mouse, Pig, Rat, Sheep
Clonality	Polyclonal
Purity/Purification	Affinity Purified
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Sequence	Synthetic peptide with the following region: RS GSPSDNSGAE EMEVSLAKPK HRVTMNEFEY LKLLGKGTFG KVILVKEK
Sequence Length	480
Applicable Applications for anti-AKT1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Homology	Cow: 86%; Dog: 100%; Goat: 86%; Human: 100%; Mouse: 100%; Pig: 93%; Rat: 100%; Sheep: 86%
Immunogen	The immunogen is a synthetic peptide directed towards the N terminal region of human AKT1
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



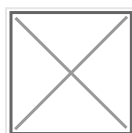
WB (Western Blot)

WB Suggested Anti-AKT1 Antibody Titration: 0.2-1 ug/ml
ELISA Titer: 1:31250
Positive Control: Human Small Intestine



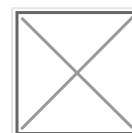
WB (Western Blot)

WB Suggested Anti-AKT1 Antibody
Positive Control: Lane 1: 50ug preterm baboon muscle homogenate
Lane 2: 50ug preterm baboon muscle homogenate
Lane 3: 50ug term baboon muscle homogenate
Lane 4: 50ug term baboon muscle homogenate
Lane 5: 50ug adult baboon muscle homogenate
Lane 6: 50ug adult baboon muscle homogenate
Primary Antibody Dilution : 1:1666
Secondary Antibody : Anti-rabbit-HRP
Secondary Antibody Dilution : 1:1200
Submitted by: Cynthia Blanco, University of Texas Health Science Center



WB (Western Blot)

Lanes: 1. 50 ug xenopus laevis embryos lysate (lysate buffer) 2. 50 ug xenopus laevis embryos lysate (HB buffer)
Primary Antibody Dilution: 1:500
Secondary Antibody: Goat Anti-Rabbit AP
Secondary Antibody Dilution: 1:20,000
Gene Name: AKT1
Submitted by: Dr. Rosa Carotenuto, Department of Structural and Functional Biology, University of Naples 'Federico II'



IHC (Immunohistochemistry)

Rabbit Anti-AKT1 Antibody
Formalin Fixed Paraffin Embedded Tissue: Human Lung Tissue
Observed Staining: Cytoplasm, Plasma membrane
Primary Antibody Concentration: 1:600
Other Working Concentrations: N/A
Secondary Antibody: Donkey anti-Rabbit-Cy3
Secondary Antibody Concentration: 1:200
Magnification: 20X
Exposure Time: 0.5 - 2.0 sec

ADDITIONAL INFORMATION

Related Product Information for anti-AKT1 antibody	This is a rabbit polyclonal antibody against AKT1. It was validated on Western Blot using a cell lysate as a positive control. Target Description: AKT1 is a general protein kinase capable of phosphorylating several known proteins. 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. Multiple alternatively spliced transcript variants have been found for this gene.
Product Categories/Family for anti-AKT1 antibody	Polyclonal ; Transcription Regulation ; Drugs and Drug Metabolism ; Neuroscience ; Signal Transduction ; Apoptosis ; Disease Related ; GPCR ; Phosphorylation ; Transcription Factors ; Cell Differentiation

NCBI AND UNIPROT INFORMATION

NCBI GI #	62241011
NCBI GeneID	207
NCBI Accession #	NP_005154
NCBI GenBank Nucleotide #	NM_005163
UniProt Accession #	P31749
Molecular Weight	56kDa
NCBI Official Full Name	RAC-alpha serine/threonine-protein kinase
NCBI Official Synonym Full Names	AKT serine/threonine kinase 1
NCBI Official Symbol	AKT1
NCBI Official Synonym Symbols	AKT; PKB; RAC; CWS6; PRKBA; PKB-ALPHA; RAC-ALPHA
NCBI Protein Information	RAC-alpha serine/threonine-protein kinase
UniProt Protein Name	RAC-alpha serine/threonine-protein kinase
UniProt Gene Name	AKT1
UniProt Synonym Gene Names	PKB; RAC; PKB; PKB alpha
UniProt Entry Name	AKT1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/akt1-antibody-immunohistochemistry-western-blot-elisa/201690>