

Rabbit AKT1 (Thr308) Polyclonal Antibody | anti-AKT1 antibody

AKT1 (Thr308) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA284989	Rabbit	Human (Predicted Reactivity: Bovine, Mouse, Rat, Xenopus)	Western Blot, Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA

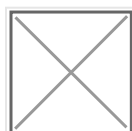
PRODUCT SYNONYMS

AKT1 (Thr308); Polyclonal Antibody; AKT1 (Thr308) Antibody; RAC-alpha serine/threonine-protein kinase; Protein kinase B; PKB; Protein kinase B alpha; PKB alpha; Proto-oncogene c-Akt; RAC-PK-alpha; AKT1; RAC; anti-AKT1 antibody

PRODUCT SPECIFICATIONS

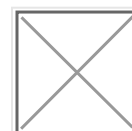
Host	Rabbit
Reactivity	Human (Predicted Reactivity: Bovine, Mouse, Rat, Xenopus)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This AKT1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 282-309 amino acids from human AKT1.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	282-309
Sequence Length	418
Applicable Applications for anti-AKT1 antibody	WB (Western Blot), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



FCM/FACS (Flow Cytometry)

AKT1 Antibody (Thr308) flow cytometric analysis of MDA-MB435 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohistochemistry)

AKT1 antibody (Thr308) immunohistochemistry analysis in formalin fixed and paraffin embedded human breast carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the AKT1 antibody (Thr308) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)

AKT1 (Thr308) Antibody western blot analysis in MDA-MB435 cell line lysates (35ug/lane). This demonstrates the AKT1 antibody detected the AKT1 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-AKT1 antibody	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. [provided by RefSeq].
Product Categories/Family for anti-AKT1 antibody	Cancer ; Cardiovascular ; Cell Biology ; Immunology ; Metabolism ; Neuroscience ; Signal Transduction
References	Zhao, W.D., et al. Infect. Immun. 78(11):4809-4816(2010) Sanematsu, F., et al. Circ. Res. 107(9):1102-1105(2010) Nicodemus, K.K., et al. Arch. Gen. Psychiatry 67(10):991-1001(2010) Treekitkarnmongkol, W., et al. World J. Gastroenterol. 16(32):4047-4054(2010) Chen, J., et al. PLoS ONE 5 (8), E12293 (2010) :

NCBI AND UNIPROT INFORMATION

NCBI GI #	62241013
NCBI GeneID	207
NCBI Accession #	NP_001014431.1 ; NP_001014432.1 ; NP_005154.2
NCBI GenBank Nucleotide #	NM_001014431.1
UniProt Accession #	P31749 ; Q9BWB6 ; B2RAM5 ; B7Z5R1
Molecular Weight	55686
NCBI Official Full Name	RAC-alpha serine/threonine-protein kinase
NCBI Official Synonym Full Names	v-akt murine thymoma viral oncogene homolog 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-thr308-antibody-western-blot-flow-cytometry-immunohistochemistry-elisa/284989>