

Rabbit AKT1 Polyclonal Antibody | anti-AKT1 antibody

AKT1 Antibody (C-term)

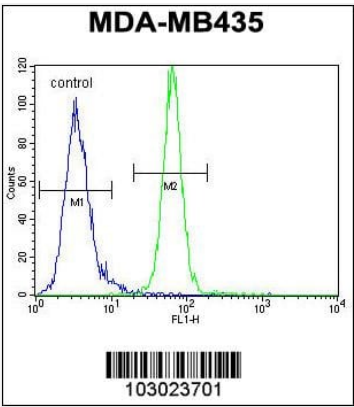
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA286145	Rabbit	Human (Predicted Reactivity: Mouse, Rat)	Flow Cytometry, Functional Assay, ELISA, Western Blot

PRODUCT SYNONYMS

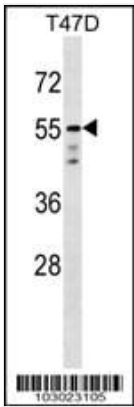
AKT1; Polyclonal Antibody; AKT1 Antibody (C-term); RAC-alpha serine/threonine-protein kinase; Protein kinase B; PKB; Protein kinase B alpha; PKB alpha; Proto-oncogene c-Akt; RAC-PK-alpha; RAC; anti-AKT1 antibody

PRODUCT SPECIFICATIONS

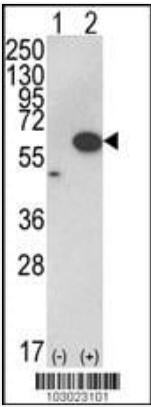
Host	Rabbit
Reactivity	Human (Predicted Reactivity: Mouse, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This AKT1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 438-468 amino acids from the C-terminal region of human AKT1.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	438-468
Sequence Length	418
Applicable Applications for anti-AKT1 antibody	FCM/FACS (Flow Cytometry), ELISA, WB (Western Blot)
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.



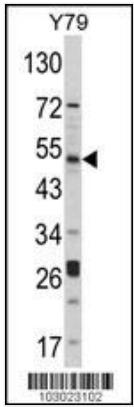
FCM/FACS (Flow Cytometry)
AKT1 Antibody (C-term) flow cytometric analysis of MDA-MB435 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



WB (Western Blot)
AKT1 Antibody (C-term) western blot analysis in T47D cell line lysates (35ug/lane).This demonstrates the AKT1 antibody detected the AKT1 protein (arrow).



WB (Western Blot)
Western blot analysis of AKT1 (arrow) using rabbit polyclonal hAKT1-D453. 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the AKT1 gene (Lane 2) (Origene Technologies).



WB (Western Blot)
Western blot analysis of hAKT1-D453 in Y79 cell line lysates (35ug/lane).AKT1 (arrow) was detected using the purified Pab.

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.
Product Categories/Family for anti-AKT1 antibody	Cancer; Cardiovascular; Cell Biology; Immunology; Metabolism; Neuroscience; Signal Transduction
References	Liao, Y., et al., Int. J. Cancer 107(4):676-680 (2003). Powell, D.J., et al., Mol. Cell. Biol. 23(21):7794-7808 (2003). Debnath, J., et al., J. Cell Biol. 163(2):315-326 (2003). Li, G., et al., Oncogene 22(44):6891-6899 (2003). Liao, Y., et al., Mol. Cell. Biol. 23(19):6836-6848 (2003).

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://www.aaabiotech.com/polyclonal/akt1-antibody-flow-cytometry-western-blot-elisa/286145>