

Mouse anti-Human AKT1/3 Monoclonal Antibody | anti-AKT1/3 antibody

AKT1/3 antibody

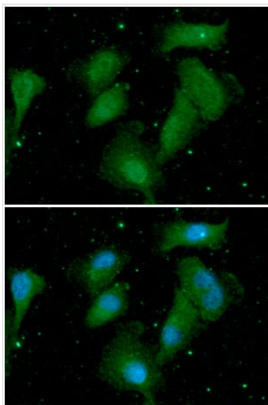
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48945	Mouse	Human	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, Western Blot, ELISA

PRODUCT SYNONYMS

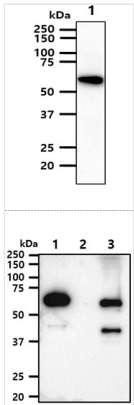
AKT1/3; Monoclonal Antibody; AKT1/3 antibody; RAC-alpha serine/threonine-protein kinase; AKT; CWS6; PKB; PKB-ALPHA; PRKBA; RAC; RAC-ALPHA; anti-AKT1/3 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a, k
Clone Number	AT6D5
Purity/Purification	By protein-A affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1 mg/ml (varies by lot)
Sequence Length	480
Applicable Applications for anti-AKT1/3 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human AKT1 (1-480aa) purified from insect cell.
Clone Note	Anti-human AKT1/3 mAb, clone AT6D5, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human AKT1 protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.



IF (Immunofluorescence)
ICC/IF analysis of AKT1/3 in A549 cells. The cell was stained with ATGA0480 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).



WB (Western Blot)
The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human AKT1/3 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: NIH3T3 cell lysate The recombinant proteins (50ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human AKT1/3 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: Recombinant Human AKT1 Lane 2.: Recombinant Human AKT2 Lane 3.: Recombinant Human AKT3

ADDITIONAL INFORMATION

Related Product Information for anti-AKT1/3 antibody	AKT1, also known as RAC-alpha serine/threonine-protein kinase, 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. 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-AKT1/3 antibody	Signal Transduction
References	Lindhurst MJ, et al (2011) N Engl J Med. 365 (7): 611-9.

NCBI AND UNIPROT INFORMATION

NCBI GI #	62241015
NCBI GeneID	207
NCBI Accession #	NP_001014432
NCBI GenBank Nucleotide #	NM_001014432.1
UniProt Accession #	P31749; Q9BWB6; B2RAM5; B7Z5R1
Molecular Weight	48,347 Da
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

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/monoclonal/akt1-3-antibody-clone-at6d5-immunofluorescence-immunocytochemistry-flow-cytometry-western-blot-elisa/48945>