

AKT1 recombinant antibody

Rabbit anti-AKT1 Recombinant Monoclonal Antibody [BLR245L]

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA213660	Rabbit	Human, Mouse	Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

AKT1; Monoclonal Recombinant Antibody; Rabbit anti-AKT1 Recombinant Monoclonal Antibody [BLR245L]; Protein kinase B; RAC; v-akt murine thymoma viral oncogene homolog 1; serine-threonine protein kinase; RAC-PK-alpha; RAC-alpha serine/threonine-protein kinase; RAC-ALPHA; rac protein kinase alpha; v-akt murine thymoma viral oncogene-like protein 1; protein kinase B alpha; PRKBA; PKB-ALPHA; PKB alpha; PKB; CWS6; AKT1m; AKT; proto-oncogene c-Akt; AKT serine/threonine kinase 1; AKT1 recombinant antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Monoclonal
Clone Number	BLR245L
Purity/Purification	Purified
Form/Format	Liquid. Whole IgG. Borate Buffered Saline (BBS) pH 8.2 with 0.1% BSA and 0.09% Sodium Azide
Concentration	400ug/ml (varies by lot)
Applicable Applications for AKT1 recombinant antibody	FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	Between 100 and 150
Conjugation	Unconjugated
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt

IMAGES



WB (Western Blot)

Detection of human AKT1 by western blot. Samples: Whole cell lysate (10 ug) from HEK293T, Jurkat, A-549, and GaMG cells prepared using NETN lysis buffer. Antibody: Rabbit anti-AKT1 recombinant monoclonal antibody (AAA213660 lot 1) used at 1:1000. Secondary: HRP-conjugated goat anti-rabbit IgG . Detection: Chemiluminescence with an exposure time of 30 seconds.



WB (Western Blot)

Detection of mouse AKT1 by western blot. Samples: Whole cell lysate (25 ug) from NIH 3T3 and CT26 cells prepared using NETN lysis buffer. Antibody: Rabbit anti-AKT1 recombinant monoclonal antibody (AAA213660 lot 1) used at 1:1000. Secondary: HRP-conjugated goat anti-rabbit IgG . Detection: Chemiluminescence with an exposure time of 30 seconds. Lower Panel: Rabbit anti-COPB2 antibody .

**FCM/FACS (Flow Cytometry)**

Detection of human AKT1 (shaded) in FaDu cells by flow cytometry. Antibody: Rabbit anti-AKT1 recombinant monoclonal antibody (AAA213660) or isotype control (unshaded).
Secondary: DyLight 650-conjugated goat anti-rabbit IgG .

**FCM/FACS (Flow Cytometry)**

Detection of mouse AKT1 (shaded) in CTLL-2 cells by flow cytometry. Antibody: Rabbit anti-AKT1 recombinant monoclonal antibody (AAA213660) or isotype control (unshaded).
Secondary: DyLight 650-conjugated goat anti-rabbit IgG .

ADDITIONAL INFORMATION

Related Product Information for AKT1 recombinant antibody	AKT1 is a serine-threonine kinase that functions downstream of PI-3 kinase and is known to phosphorylate several proteins. AKT1 mediates the effects of several growth factors such as insulin, IGF-1, EGF, and PDGF to control cell survival and apoptosis. There are numerous substrates of AKT1, some of which are: GSK3-alpha and beta, mTOR, TSC2, Bad, c-Raf, and caspase 9.
Product Categories/Family for AKT1 recombinant antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	62241011
NCBI GeneID	207
NCBI Accession #	NP_005154.2
NCBI GenBank Nucleotide #	NM_005163.2
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	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; AKT1m; PKB alpha; RAC-PK-alpha; proto-oncogene c-Akt; protein kinase B alpha; rac protein kinase alpha
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/monoclonal/akt1-recombinant-antibody-clone-blr245l-flow-cytometry-western-blot-elisa/213660>