Mouse AKT1 Monoclonal Antibody | anti-AKT1 antibody

AKT1 (Proto-Oncogene)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62966	**Mouse**	**Human. Others not known**	**Immunohistochemistry**

PRODUCT SYNONYMS

AKT1; Monoclonal Antibody; AKT1 (Proto-Oncogene); Oncogene AKT1; PKB; PKB-ALPHA; PRKBA; Protein Kinase B Alpha; Proto-oncogene c-Akt; RAC Alpha; RAC Serine/Threonine Protein Kinase; RAC-alpha serine/threonine-protein kinase; RAC-PK-alpha; anti-AKT1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human. Others not known
Clonality	Monoclonal
Isotype	IgG2b, kappa
Clone Number	AKT1/2491
Specificity	Recognizes a protein of 62kDa, which is identified as AKT1The serine/threonine kinase Akt family contains several members, including Akt1 (also designated PKB or RacPK), Akt2 (also designated PKB? or RacPK-?) and Akt 3 (also designated PKB? or thyoma viral proto-oncogene 3), which exhibit sequence homology with the protein kinase A and C families and are encoded by the c-Akt proto-oncogene. All members of the Akt family have a Pleckstrin homology domain. Akt1 and Akt2 are activated by PDGF stimulation. This activation is dependent on PDGFR-? tyrosine residues 740 and 751, which bind the subunit of the phosphatidylinositol 3-kinase (PI 3-kinase) complex. Activation of Akt1 by insulin or insulin-growth factor-1(IGF-1) results in phosphorylation of both Thr 308 and Ser 473. Akt proteins become phosphorylated and activated in insulin/IGF-1-stimulated cells by an upstream kinase(s), and the activation of Akt1 and Akt2 is inhibited by the PI kinase inhibitor wortmannin.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 1mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	480
Applicable Applications for anti-AKT1 antibody	IHC (Immunohistochemistry)
Immunogen	Recombinant human AKT1 protein fragment (around aa85-189)
Cellular Localization	Nuclear, Cytoplasmic and Cell Surface
Hu-chromosome Location	14q32.32
Positive Control	PDGF-treated NIH/3T3 cells. HeLa cell lysates. Human pancreas or cervical carcinoma.
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES

SDS-PAGE
SDS-PAGE Analysis Purified AKT1 Mouse Monoclonal Antibody (AKT1/2491). Confirmation of Integrity and Purity of Antibody.

IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Pancreas stained with AKT1 Mouse Monoclonal Antibody (AKT1/2491).

ADDITIONAL INFORMATION

References	Franke, T.F., et al. 1995. The protein kinase encoded by the Akt protoonco- gene is a target of the PDGF-activated phosphatidylinositol 3-kinase. Cell 81: 727-736.

NCBI AND UNIPROT INFORMATION

NCBI GI #	62241013
NCBI GeneID	207
NCBI Accession #	NP_001014431.1
NCBI GenBank Nucleotide #	NM_001014431.1
UniProt Accession #	P31749; Q9BWB6; B2RAM5; B7Z5R1
Molecular Weight	62kDa
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

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/monoclonal/akt1-antibody-clone-akt1-2491-immunohistochemistry-elisa/62966