

Rabbit anti-Human, Mouse AKT1 Monoclonal Antibody | anti-AKT1 antibody

AKT1 (Phospho-Ser473) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA311003	Rabbit	Human, Mouse	Immunoprecipitation, Immunohistochemistry, Immunofluorescence, Immunocytochemistry, Western Blot

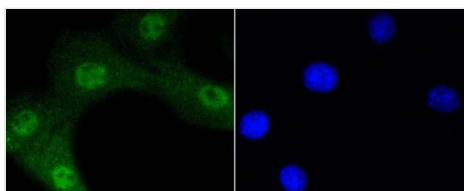
PRODUCT SYNONYMS

AKT1; Monoclonal Antibody; AKT1 (Phospho-Ser473) Antibody; AKT 1 antibody; AKT antibody; AKT1 antibody; AKT1_HUMAN antibody; MGC99656 antibody; PKB antibody; PKB-ALPHA antibody; PRKBA antibody; Protein Kinase B Alpha antibody; Protein kinase B antibody; Proto-oncogene c-Akt antibody; RAC Alpha antibody; RAC antibody; RAC-alpha serine/threonine-protein kinase antibody; RAC-PK-alpha antibody; anti-AKT1 antibody

PRODUCT SPECIFICATIONS

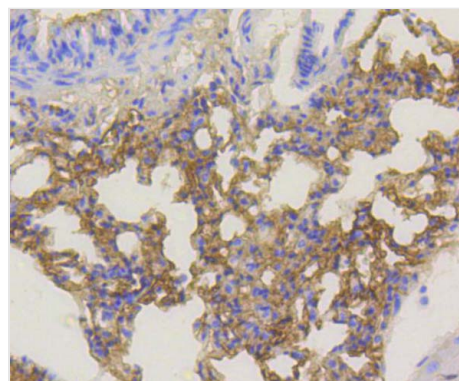
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Monoclonal
Clone Number	SY28-05
Purity/Purification	ProA affinity purified
Form/Format	1*TBS (pH7.4), 1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Applicable Applications for anti-AKT1 antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Antibody Type	Recombinant Antibody
Immunogen	Synthetic phospho-peptide corresponding to residues surrounding Ser473 of human Akt1.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C.

IMAGES



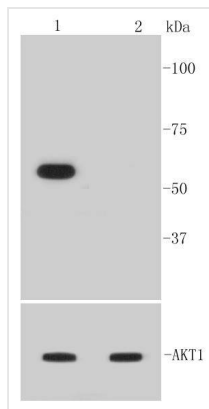
ICC (Immunocytochemistry)

ICC staining Phospho-Akt1 (Ser473) in NIH/3T3 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded mouse lung tissue using anti-Phospho-Akt1 (Ser473) antibody. Counter stained with hematoxylin.



WB (Western Blot)
 Western blot analysis of Phospho-Akt1 (Ser473) on different lysates using anti-Phospho-Akt1 (Ser473) antibody at 1/1, 000 dilution. Positive control: Lane 1: NIH/3T3 treated with PDGF
 Lane 2: NIH/3T3 untreated

ADDITIONAL INFORMATION

Related Product Information for anti-AKT1 antibody	The serine/threonine kinase Akt family contains several members, including Akt1 (also designated PKB or RacPK), Akt2 (also designated PKBbeta or RacPK-beta) and Akt 3 (also designated PKBgamma 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-beta 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. Phosphorylation of both residues is important to generate a high level of Akt1 activity, and the phosphorylation of Thr 308 is not dependent on phosphorylation of Ser 473 in vivo. Thus, Akt proteins become phosphorylated and activated in insulin/IGF-1-stimulated cells by an upstream kinase (s). The activation of Akt1 and Akt2 is inhibited by the PI kinase inhibitor wortmannin, suggesting that the protein signals downstream of the PI kinases.
Product Categories/Family for anti-AKT1 antibody	Phospho-specific Ab

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
Molecular Weight	55,686 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; 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

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-antibody-clone-sy28-05-immunoprecipitation-immunohistochemistry-immunofluorescence-immunocytochemistry-western-blot-elisa/311003>