

Rabbit Akt1 Polyclonal Antibody | anti-Akt1 antibody

Akt1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA307995	Rabbit	Human, Mouse, Rat	Immunohistochemistry, Western Blot, ELISA

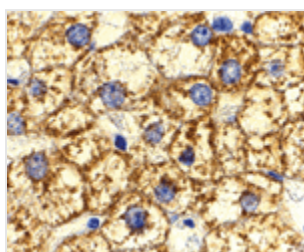
PRODUCT SYNONYMS

Akt1; Polyclonal Antibody; Akt1 Antibody; Protein kinase B; PKB; anti-Akt1 antibody

PRODUCT SPECIFICATIONS

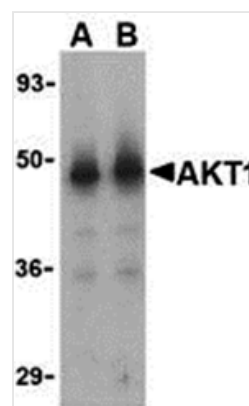
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Affinity chromatography purified via peptide column
Form/Format	Supplied in PBS containing 0.02% sodium azide.
Sequence Length	480
Applicable Applications for anti-Akt1 antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA
Immunogen Type	Peptide
Immunogen Description	Raised against a 16 amino acid peptide from near the amino-terminus of human Akt1.
Target Name	Akt1
Preparation and Storage	Can be stored at -20 degree C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

IMAGES



IHC (Immunohistochemistry)

Immunohistochemistry of Akt1 in human liver cells with Akt1 antibody at 2 ug/mL.



WB (Western Blot)

Western blot analysis of Akt1 in human liver cell lysate with Akt1 antibody at (A) 1 and (B) 2 ug/mL.

ADDITIONAL INFORMATION

Related Product Information for anti-Akt1 antibody	Akt1, initially identified as the cellular homolog to the retro-viral oncogene v-Akt, is part of the phosphatidyl 3'-kinase (PI3K)-Akt signaling pathway that is activated by diverse cellular stimuli and regulates critical cellular functions such as cell growth, proliferation, and survival. Following phosphorylation of the second messenger PIP2 by PI3K, Akt1 translocates to the cell membrane where it is activated by phosphoinositide-dependent kinase (PDK) 1 and PDK2. The active Akt1 is then able to phosphorylate and activate its substrates, including those that are important for cell proliferation and survival such as TOR and the Bcl-2 homolog Bad. Negative regulation of the PI3K-Akt signaling pathway is mainly accomplished by the lipid phosphatase activity of PTEN which catalyzes the conversion of PIP3 to PIP2, thereby preventing the activation of Akt1. Inactivation of this gene often results in excessive Akt1 activity, often leading to the formation of malignant tumors.
Product Categories/Family for anti-Akt1 antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	12653417
NCBI GeneID	207
Molecular Weight	48,347 Da
NCBI Official Full Name	V-akt murine thymoma viral oncogene homolog 1
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://stage.aaabiotech.com/polyclonal/akt1-antibody-immunohistochemistry-western-blot-elisa/307995>