

Rabbit AKT1/AKT2/AKT3 Polyclonal Antibody | anti-AKT1/AKT2/AKT3 antibody

AKT1/AKT2/AKT3 antibody

CATALOG # AAA107692	HOST Rabbit	APPLICATIONS Western Blot, Immunohistochemistry, Immunofluorescence
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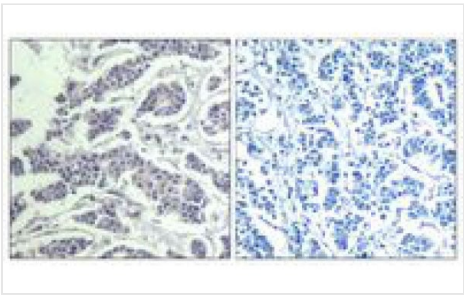
PRODUCT SYNONYMS

AKT1/AKT2/AKT3; Polyclonal Antibody; AKT1/AKT2/AKT3 antibody; Polyclonal AKT1/AKT2/AKT3; Anti-AKT1/AKT2/AKT3; AKT/AKT2/AKT3-1; AKT/AKT2/AKT3 1; Phospho Tyr315/316/312; anti-AKT1/AKT2/AKT3 antibody

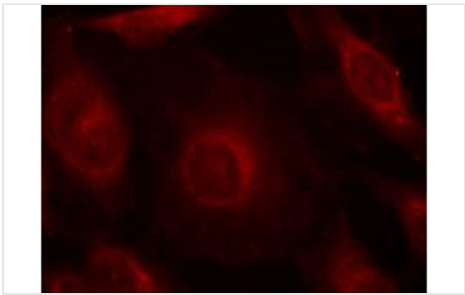
PRODUCT SPECIFICATIONS

Host	Rabbit
Clonality	Polyclonal
Purity/Purification	AKT1/AKT2/AKT3 antibody was purified by immunoaffinity chromatography.
Form/Format	Supplied in liquid form in PBS buffer (no MG2+ or Ca2+), pH 7.4, 150 mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1 mg/ml (varies by lot)
Applicable Applications for anti-AKT1/AKT2/AKT3 antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence)
Biological Significance	Akt1 is involved in cellular survival pathways, by inhibiting apoptotic processes. Akt1 is also able to induce protein synthesis pathways, and is therefore a key signaling protein in the cellular pathways that lead to skeletal muscle hypertrophy, and general tissue growth. Since it can block apoptosis, and thereby promote cell survival, Akt1 has been implicated as a major factor in many types of cancer. Akt (now also called Akt1) was originally identified as the oncogene in the transforming retrovirus, AKT8. Akt2 is an important signaling molecule in the Insulin signaling pathway. It is required to induce glucose transport. In a mouse which is null for Akt1 but normal for Akt2, glucose homeostasis is unperturbed, but the animals are smaller, consistent with a role for Akt1 in growth. In contrast, mice which do not have Akt2, but have normal Akt1, have mild growth deficiency and display a diabetic phenotype (insulin resistance), again consistent with the idea that Akt2 is more specific for the insulin receptor signaling pathway. The role of Akt3 is less clear, though it appears to be predominantly expressed in brain. It has been reported that mice lacking Akt3 have small brains.
Cross-Reactivity	Human, Mouse, Rat
Immunogen	AKT1/AKT2/AKT3 antibody was raised in Rabbit using the peptide sequence around phosphorylation site of tyrosine 315/316/312 (P-E-Y(p)-L-A) derived from Human AKT1/AKT2/AKT3 as the immunogen.
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.

IMAGES



IHC (Immunohiostchemistry)
immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using AKT1/AKT2/AKT3 (Phospho-Tyr315/316/312) antibody (left) or the same antibody preincubated with with blocking peptide (right)



IF (Immunofluorescence)
Immunofluorescence staining of methanol-fixed HeLa cells using AKT1/AKT2/AKT3(Phospho-Tyr315/316/312) antibody

ADDITIONAL INFORMATION

Related Product Information for anti-AKT1/AKT2/AKT3 antibody	Rabbit polyclonal AKT1/AKT2/AKT3 antibody
Product Categories/Family for anti-AKT1/AKT2/AKT3 antibody	Cell Cycle & Cell Death

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-akt2-akt3-antibody-western-blot-immunohistochemistry-immunofluorescence-elisa/107692>