

Rabbit anti-Human, mouse AKT2 Polyclonal Antibody | anti-AKT2 antibody

AKT2 Antibody (N-term)

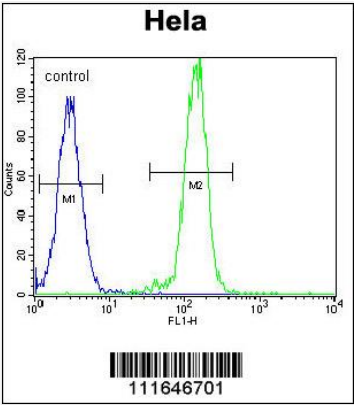
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA285901	Rabbit	Human, mouse	Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

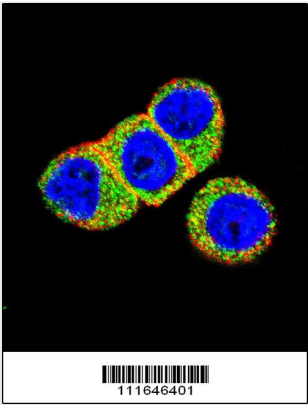
AKT2; Polyclonal Antibody; AKT2 Antibody (N-term); RAC-beta serine/threonine-protein kinase; Protein kinase Akt-2; Protein kinase B beta; PKB beta; RAC-PK-beta; anti-AKT2 antibody

PRODUCT SPECIFICATIONS

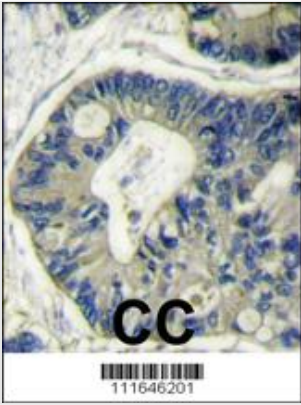
Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This AKT2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 93-123 amino acids from the N-terminal region of human AKT2.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	93-123
Sequence Length	481
Applicable Applications for anti-AKT2 antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



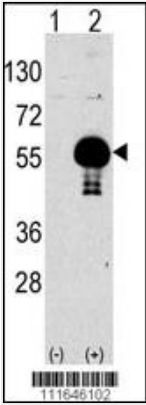
FCM/FACS (Flow Cytometry)
AKT2 Antibody (N-term) flow cytometric analysis of HeLa cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



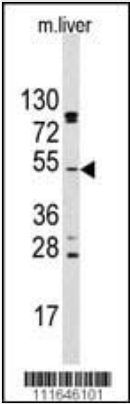
IF (Immunofluorescence)
Confocal immunofluorescent analysis of AKT2 Antibody (N-term) with HeLa cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red).DAPI was used to stain the cell nuclear (blue).



IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human colon carcinoma reacted with AKT2 Antibody (N-term) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



WB (Western Blot)
Western blot analysis of anti-AKT2 Antibody (N-term) Pab in 293 cell line lysates transiently transfected with the AKT2 gene (2ug/lane). AKT2(arrow) was detected using the purified Pab.



WB (Western Blot)
Western blot analysis of anti-AKT2 Antibody (N-term) Pab in mouse liver tissue lysates (35ug/lane). AKT2(arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-AKT2 antibody	AKT2 is a putative oncogene encoding a protein belonging to a subfamily of serine/threonine kinases containing SH2-like (Src homology 2-like) domains. Furthermore, AKT2 was shown to be amplified and overexpressed in 2 of 8 ovarian carcinoma cell lines and 2 of 15 primary ovarian tumors. Overexpression of AKT2 contributes to the malignant phenotype of a subset of human ductal pancreatic cancers. AKT2 is a general protein kinase capable of phosphorylating several known proteins.
Product Categories/Family for anti-AKT2 antibody	Cancer; Cardiovascular; Cell Biology; Immunology; Metabolism; Neuroscience; Signal Transduction
References	George, S., et al., Science 304(5675):1325-1328 (2004). Xu, X., et al., Oncol. Rep. 11(1):25-32 (2004). Shim, D., et al., Arch. Biochem. Biophys. 425(2):214-220 (2004). Li, X., et al., Gastroenterology 126(1):122-135 (2004). Vojtek, A.B., et al., Mol. Cell. Biol. 23(13):4417-4427 (2003).

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502023
NCBI GeneID	208
NCBI Accession #	NP_001617.1
NCBI GenBank Nucleotide #	NM_001626.5
UniProt Accession #	P31751; Q05BV0; Q0VAN0; Q0VAN1; Q68GC0; B2RBD8
Molecular Weight	55769
NCBI Official Full Name	RAC-beta serine/threonine-protein kinase isoform 1
NCBI Official Synonym Full Names	v-akt murine thymoma viral oncogene homolog 2
NCBI Official Symbol	AKT2
NCBI Official Synonym Symbols	PKBB; PRKBB; HIHGHH; PKBBETA; RAC-BETA
NCBI Protein Information	RAC-beta serine/threonine-protein kinase
UniProt Protein Name	RAC-beta serine/threonine-protein kinase
UniProt Gene Name	AKT2
UniProt Synonym Gene Names	PKB beta
UniProt Entry Name	AKT2_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/akt2-antibody-flow-cytometry-immunofluorescence-immunohistochemistry-western-blot-elisa/285901>