

Rabbit Akt1 Polyclonal Antibody | anti-Akt1 antibody

Mouse Akt1 Antibody (N-term)

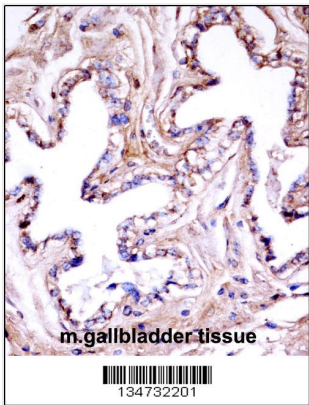
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA288066	Rabbit	Mouse (Predicted Reactivity: Human)	Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

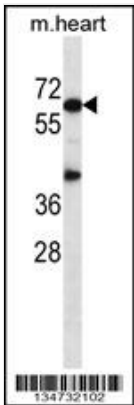
Akt1; Polyclonal Antibody; Mouse Akt1 Antibody (N-term); RAC-alpha serine/threonine-protein kinase; AKT1 kinase; Protein kinase B; PKB; Protein kinase B alpha; PKB alpha; Proto-oncogene c-Akt; RAC-PK-alpha; Thymoma viral proto-oncogene; Akt; Rac; anti-Akt1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse (Predicted Reactivity: Human)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This Mouse Akt1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 22-49 amino acids from the N-terminal region of mouse Akt1.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	22-49
Sequence Length	488
Applicable Applications for anti-Akt1 antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	MOUSE
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.



IHC (Immunohistochemistry)
Mouse Akt1 Antibody (N-term) (AAA288066) immunohistochemistry analysis in formalin fixed and paraffin embedded mouse gallbladder tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of Mouse Akt1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
Mouse Akt1 Antibody (N-term) western blot analysis in mouse heart tissue lysates (35ug/lane). This demonstrates the Akt1 antibody detected the Akt1 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-Akt1 antibody	This gene encodes the founding member of the Akt serine-threonine protein kinase gene family that also includes Akt2 and Akt3. This kinase is a major downstream effector of the phosphatidylinositol 3-kinase (PI3K) pathway that mediates the effects of various growth factors such as platelet-derived growth factor (PDGF), epidermal growth factor (EGF), insulin and insulin-like growth factor I (IGF-I). It is activated through recruitment to cellular membranes by PI3K lipid products and by phosphorylation by 3-phosphoinositide dependent kinase-1. It then further phosphorylates different downstream proteins in response to various extracellular signals and thus plays a pivotal role in mediating a variety of cellular processes, such as glucose metabolism, glycogen biosynthesis, protein synthesis and turn over, inflammatory response, cell survival (anti-apoptosis) and development. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq].
Product Categories/Family for anti-Akt1 antibody	Cancer; Cardiovascular; Cell Biology; Neuroscience; Signal Transduction
References	Chang, Z., et al. Dev. Biol. 347(2):384-391(2010) Zhou, F., et al. Am. J. Pathol. 177(4):2124-2133(2010) Sun, X., et al. Proc. Natl. Acad. Sci. U.S.A. 107(39):16887-16892(2010) Goncalves, M.D., et al. PLoS ONE 5 (9), E12707 (2010) : Bremer, J., et al. PLoS ONE 5 (8), E12450 (2010) :

NCBI AND UNIPROT INFORMATION

NCBI GI #	260166608
NCBI GeneID	11651
NCBI Accession #	NP_001159366.1; NP_033782.1
NCBI GenBank Nucleotide #	NM_001165894.1
UniProt Accession #	P31750; Q62274; Q6GSA6
Molecular Weight	55707

NCBI Official Full Name	RAC-alpha serine/threonine-protein kinase isoform 2
NCBI Official Synonym Full Names	thymoma viral proto-oncogene 1
NCBI Official Symbol	Akt1
NCBI Official Synonym Symbols	Akt; PKB; Rac; PKB/Akt; PKBalpha
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	Akt; Rac; PKB; PKB alpha
UniProt Entry Name	AKT1_MOUSE

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://www.aaabiotech.com/polyclonal/akt1-antibody-immunohistochemistry-western-blot-elisa/288066>