

Rabbit AK3 Polyclonal Antibody | anti-AK4 antibody

AK3 Antibody (C-term H38)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA286317	Rabbit	Human, mouse (Predicted Reactivity: Rat)	Immunohistochemistry, ELISA, Western Blot

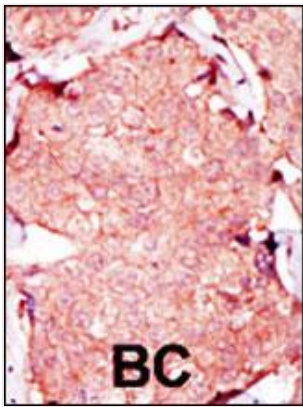
PRODUCT SYNONYMS

AK3; Polyclonal Antibody; AK3 Antibody (C-term H38); Adenylate kinase 4; mitochondrial {ECO:0000255|HAMAP-Rule:MF_03170}; AK 4 {ECO:0000255|HAMAP-Rule:MF_03170}; 27410 {ECO:0000255|HAMAP-Rule:MF_03170}; 2746 {ECO:0000255|HAMAP-Rule:MF_03170}; Adenylate kinase 3-like {ECO:0000255|HAMAP-Rule:MF_03170}; GTP:AMP phosphotransferase AK4 {ECO:0000255|HAMAP-Rule:MF_03170}; AK4 {ECO:0000255|HAMAP-Rule:MF_03170}; anti-AK4 antibody

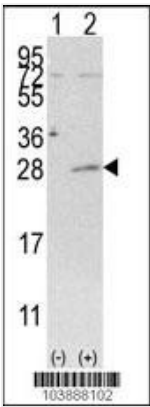
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, mouse (Predicted Reactivity: Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This AK3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 195-223 amino acids from the C-terminal region of human AK3.
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 purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	195-223
Sequence Length	223
Applicable Applications for anti-AK4 antibody	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.

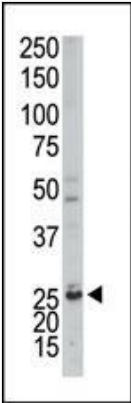
IMAGES



IHC (Immunohistochemisry)
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



WB (Western Blot)
Western blot analysis of AK3 (arrow) using rabbit polyclonal AK3 Antibody (C-term H38). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the AK3 gene (Lane 2) (Origene Technologies).



WB (Western Blot)
The anti-AK3 Pab is used in Western blot to detect AK3 in mouse kidney tissue lysate.

ADDITIONAL INFORMATION

Related Product Information for anti-AK4 antibody	AK3 is a member of the adenylate kinase family of enzymes. The encoded protein is localized to the mitochondrial matrix. Adenylate kinases regulate the adenine and guanine nucleotide compositions within a cell by catalyzing the reversible transfer of phosphate group among these nucleotides. Five isozymes of adenylate kinase have been identified in vertebrates. Expression of these isozymes is tissue-specific and developmentally regulated.
Product Categories/Family for anti-AK4 antibody	Metabolism; Signal Transduction
References	Van Rompay, A.R., et al., Eur. J. Biochem. 261(2):509-517 (1999). Yoneda, T., et al., Brain Res. Mol. Brain Res. 62(2):187-195 (1998). Xu, G., et al., Genomics 13(3):537-542 (1992). Robson, E.B., et al., Cytogenet. Cell Genet. 32 (1-4), 144-152 (1982).

NCBI AND UNIPROT INFORMATION

NCBI GI #	53832003
NCBI GeneID	205
NCBI Accession #	NP_001005353.1; NP_037542.1; NP_982289.1
NCBI GenBank Nucleotide #	NM_001005353.2
UniProt Accession #	P27144; Q6IBH4; Q6NXQ5; Q8IUU9; B2R927; D3DQ62

Molecular Weight	25268
NCBI Official Full Name	adenylate kinase 4, mitochondrial
NCBI Official Synonym Full Names	adenylate kinase 4
NCBI Official Symbol	AK4
NCBI Official Synonym Symbols	AK3; AK 4; AK3L1; AK3L2
NCBI Protein Information	adenylate kinase 4, mitochondrial
UniProt Protein Name	Adenylate kinase 4, mitochondrial
UniProt Gene Name	AK4
UniProt Synonym Gene Names	AK 4
UniProt Entry Name	KAD4_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/ak3-antibody-immunohistochemistry-western-blot-elisa/286317>