

Rabbit anti-Human, mouse AK5 Polyclonal Antibody | anti-AK5 antibody

AK5 Antibody (N-term)

CATALOG # AAA288682	HOST Rabbit	REACTIVITY Human, mouse	APPLICATIONS Immunohistochemistry, ELISA, Western Blot
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PRODUCT SYNONYMS

AK5; Polyclonal Antibody; AK5 Antibody (N-term); Adenylate kinase isoenzyme 5; AK 5; ATP-AMP transphosphorylase 5; anti-AK5 antibody

PRODUCT SPECIFICATIONS

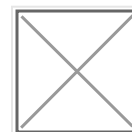
Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This AK5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 404-433 amino acids from the N-terminal region of human AK5.
Purity/Purification	Purified Rabbit Polyclonal Antibody (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	404-433
Sequence Length	536
Applicable Applications for anti-AK5 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 brain tissue reacted with AK5 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.



IHC (Immunohiostchemistry)

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)

The anti-AK5 Pab is used in Western blot to detect AK5 in mouse liver tissue lysate.

ADDITIONAL INFORMATION

Related Product Information for anti-AK5 antibody	Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the γ phosphate of ATP, onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. With more than 500 gene products, the protein kinase family is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. The AGC kinase group consists of 63 kinases including the cyclic nucleotide-regulated protein kinase (PKA & PKG) family, the diacylglycerol-activated/phospholipid-dependent protein kinase C (PKC) family, the related to PKA and PKC (RAC/Akt) protein kinase family, the kinases that phosphorylate G protein-coupled receptors family (ARK), and the kinases that phosphorylate ribosomal protein S6 family (RSK).
Product Categories/Family for anti-AK5 antibody	Metabolism; Signal Transduction
References	Strausberg, R.L., et al., Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903 (2002). Van Rompay, A.R., et al., Eur. J. Biochem. 261(2):509-517 (1999).

NCBI AND UNIPROT INFORMATION

NCBI GI #	28144899
NCBI GeneID	26289
NCBI Accession #	NP_036225.2; NP_777283.1
NCBI GenBank Nucleotide #	NM_012093.3
UniProt Accession #	Q9Y6K8; Q5U622; Q6FH66; Q7Z4T5; Q86YS0; Q8N464; Q96EC9
Molecular Weight	63333
NCBI Official Full Name	adenylate kinase isoenzyme 5 isoform 2
NCBI Official Synonym Full Names	adenylate kinase 5
NCBI Official Symbol	AK5
NCBI Official Synonym Symbols	AK6
NCBI Protein Information	adenylate kinase isoenzyme 5
UniProt Protein Name	Adenylate kinase isoenzyme 5
UniProt Gene Name	AK5
UniProt Synonym Gene Names	AK 5
UniProt Entry Name	KAD5_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.