

AK1 polyclonal antibody

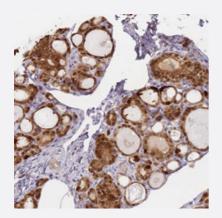
Catalog # PAB30760 Size 100 uL

Applications



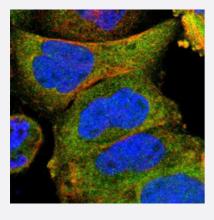
Western Blot (Cell lysate)

Western Blot analysis of Lane 1: NIH-3T3 cell lysate (mouse embryonic fibroblast cells) and Lane 2: NBT-II cell lysate (Wistar rat bladder tumor cells) with AK1 polyclonal antibody (Cat # PAB30760).



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human thyroid gland with AK1 polyclonal antibody (Cat # PAB30760) shows strong cytoplasmic and nuclear positivity in glandular cells.



Immunofluorescence

Immunofluorescent staining of A-431 cells with AK1 polyclonal antibody (Cat # PAB30760) (Green) shows positivity in cytoplasm.



Product Description	Rabbit polyclonal antibody raised against partial recombinant human AK1.
Immunogen	Recombinant protein corresponding to human AK1.
Sequence	EKGQLVPLETVLDMLRDAMVAKVNTSKGFLIDGYPREVQQGEEFERRIGQPTLLLYVDAGPETMT QRLLKRGETSGRVDDNEETIKKRLETYYKATEPVIAFYEKRGIVRKVNAEGS
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid
Purification	Antigen affinity purification
Isotype	lgG
Recommend Usage	Immunofluorescence (1-4 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:500-1:1000) Western Blot (1:100-1:250) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

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Gene Info — AK1	
Entrez GenelD	203
Protein Accession#	P00568
Gene Name	AK1
Gene Alias	-
Gene Description	adenylate kinase 1
Omim ID	103000
Gene Ontology	<u>Hyperlink</u>
Gene Summary	Adenylate kinase is an enzyme involved in regulating the adenine nucleotide composition within a cell by catalyzing the reversible transfer of phosphate group among adinine nucleotides. Three iso zymes of adenylate kinase have been identified in vertebrates, adenylate isozyme 1 (AK1), 2 (AK 2) and 3 (AK3). AK1 is found in the cytosol of skeletal muscle, brain and erythrocytes, whereas A K2 and AK3 are found in the mitochondria of other tissues including liver and heart. AK1 was iden tified because of its association with a rare genetic disorder causing nonspherocytic hemolytic an emia where a mutation in the AK1 gene was found to reduce the catalytic activity of the enzyme. [provided by RefSeq
Other Designations	ATP-AMP transphosphorylase OTTHUMP00000022217 OTTHUMP00000022218 myokinase

Pathway

- Metabolic pathways
- Purine metabolism

Disease

• Fetal Growth Retardation