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Product datasheet for TA302218

AK3L1 (AK4) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1:1000, IHC: 1:50~100
Reactivity:	Human, Mouse (Predicted: Rat)
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	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.
Formulation:	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Concentration:	lot specific
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	25268 Da
Gene Name:	adenylate kinase 4
Database Link:	NP_037542 Entrez Gene 11639 MouseEntrez Gene 29223 RatEntrez Gene 205 Human P27144
Background:	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.
Synonyms:	AK3; AK3L1; AK3L2; AK 4
Protein Families:	Druggable Genome

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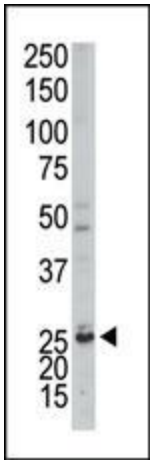
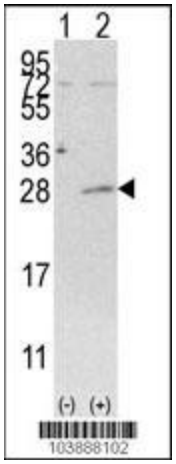
Protein Pathways: Metabolic pathways, Purine metabolism

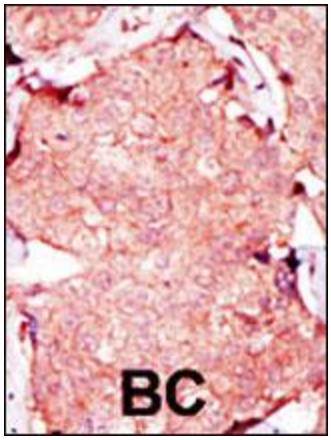
Product images:



The anti-AK3 Pab (Cat. #TA302218) is used in Western blot to detect AK3 in mouse kidney tissue lysate.



Western blot analysis of AK3 (arrow) using rabbit polyclonal AK3 Antibody (C-term H38) (Cat. #TA302218). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the AK3 gene (Lane 2) (Origene Technologies).



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.

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