

Ak3 antibody - C-terminal region

Rabbit Polyclonal Antibody

Catalog # AI14022

Product Information

Application	WB
Primary Accession	Q9WTP7
Other Accession	NM_021299 , NP_067274
Reactivity	Human, Mouse, Rat, Rabbit, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Pig, Chicken, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	25426

Additional Information

Gene ID	56248
Alias Symbol	AA407498, AI506714, AK-3, Ak3l, Ak3l1, Akl3l
Other Names	GTP:AMP phosphotransferase AK3, mitochondrial {ECO:0000255 HAMAP-Rule:MF_03169}, 2.7.4.10 {ECO:0000255 HAMAP-Rule:MF_03169}, Adenylate kinase 3 {ECO:0000255 HAMAP-Rule:MF_03169}, AK 3 {ECO:0000255 HAMAP-Rule:MF_03169}, Adenylate kinase 3 alpha-like 1 {ECO:0000255 HAMAP-Rule:MF_03169}, Ak3, Ak3l, Ak3l1, Akl3l
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Ak3 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Ak3 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Ak3 {ECO:0000312 MGI:MGI:1860835}
Function	Mitochondrial adenylate kinase with a specific GTP:AMP phosphotransferase activity. Could also use ITP as phosphate donor. Its physiological function is to recycle GTP into GDP which is necessary for the TCA cycle in the mitochondrial matrix.
Cellular Location	Mitochondrion matrix {ECO:0000250 UniProtKB:Q9UIJ7,

References

Carninci P.,et al.Science 309:1559-1563(2005).

Noma T.,et al.Submitted (NOV-1998) to the EMBL/GenBank/DDBJ databases.

Park J.,et al.Mol. Cell 50:919-930(2013).

Rardin M.J.,et al.Proc. Natl. Acad. Sci. U.S.A. 110:6601-6606(2013).

Images



WB Suggested Anti-Ak3 Antibody Titration: 1.0 µg/ml
Positive Control: Mouse Liver

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.