

(DANRE) ak2 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # Azb18720b

Product Information

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|-------------------|------------------------|
| Application | WB, E |
| Primary Accession | Q1L8L9 |
| Reactivity | Zebrafish |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | Rabbit IgG |
| Clone Names | RB46461 |
| Calculated MW | 26616 |

Additional Information

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|--------------------|--|
| Gene ID | 321793 |
| Other Names | Adenylate kinase 2, mitochondrial {ECO:0000255 HAMAP-Rule:MF_03168}, AK 2 {ECO:0000255 HAMAP-Rule:MF_03168}, 2743 {ECO:0000255 HAMAP-Rule:MF_03168}, ATP-AMP transphosphorylase 2 {ECO:0000255 HAMAP-Rule:MF_03168}, ATP:AMP phosphotransferase {ECO:0000255 HAMAP-Rule:MF_03168}, Adenylate monophosphate kinase {ECO:0000255 HAMAP-Rule:MF_03168}, ak2 |
| Target/Specificity | This (DANRE) ak2 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 2-36 amino acids from the N-terminal region of (DANRE) ak2. |
| Dilution | WB~~1:1000 E~~Use at an assay dependent concentration. |
| 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. |
| Storage | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| Precautions | (DANRE) ak2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

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| Name | ak2 |
| Function | Catalyzes the reversible transfer of the terminal phosphate group between |

ATP and AMP. Plays an important role in cellular energy homeostasis and in adenine nucleotide metabolism. Adenylate kinase activity is critical for regulation of the phosphate utilization and the AMP de novo biosynthesis pathways. Plays a key role in hematopoiesis.

Cellular Location

Mitochondrion intermembrane space {ECO:0000255 | HAMAP-Rule:MF_03168}

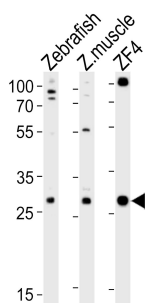
Background

Catalyzes the reversible transfer of the terminal phosphate group between ATP and AMP. Plays an important role in cellular energy homeostasis and in adenine nucleotide metabolism. Adenylate kinase activity is critical for regulation of the phosphate utilization and the AMP de novo biosynthesis pathways. Plays a key role in hematopoiesis.

References

Howe K.,et al.Nature 496:498-503(2013).
Pannicke U.,et al.Nat. Genet. 41:101-105(2009).

Images



Western blot analysis of lysates from Zebrafish, zebra fish muscle tissue lysate, ZF4 cell line (from left to right), using (DANRE) ak2 Antibody (N-term)(Cat. #Azb18720b). Azb18720b was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.

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