BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Zebrafish ak2 Antibody (Center)

Catalog Number: M04253

About ak2

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.

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Overview

Product Name	Anti-Zebrafish ak2 Antibody (Center)
Reactive Species	Human, Mouse, Zebrafish
Description	Boster Bio Anti-Zebrafish ak2 Antibody (Center) (Catalog # M04253). Tested in WB, IHC-P, Flow Cytometry application(s). This antibody reacts with Human, Mouse, Zebrafish.
Application	Flow Cytometry, IHC-P, WB
Clonality	Polyclonal
Formulation	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Storage Instructions	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.
Host	Rabbit
Uniprot ID	Q1L8L9

Technical Details

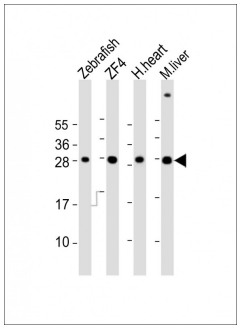
Immunogen	This Zebrafish ak2 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 147-183 amino acids from the Central region of Zebrafish ak2.
Predicted Reactive Species	Chicken, Mouse
Isotype	Rabbit IgG
Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.

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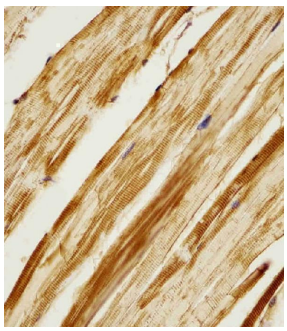
Suggested Dilutions	WB: 1:2000 IHC-P: 1:25 FC: 1:25

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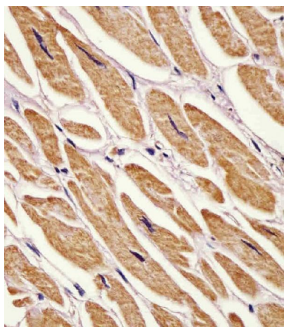
Anti-Zebrafish ak2 Antibody (Center) (M04253) Images



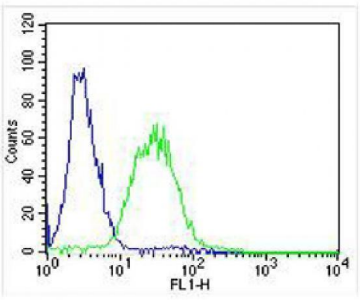
All lanes : Anti-Zebrafish ak2 Antibody (Center) at 1:2000 dilutionLane 1: Zebrafish lysatesLane 2: ZF4 whole cell lysatesLane 3: human heart lysatesLane 4: mouse liver lysatesLysates/proteins at 20 µg per lane. SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 27 kDaBlocking/Dilution buffer: 5% NFDM/TBST.



M04253 staining Zebrafish ak2 in zebra fish body tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



M04253 staining Zebrafish ak2 in human heart tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



Overlay histogram showing ZF4 cells stained with M04253 (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (M04253, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed at 1/400 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was rabbit IgG (1g/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

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