

Product Information

Contents: Affinity Purified anti-mouse/human Gata-4 (Gata4)

Catalog Number: 14-9980

Sizes: 25 ug, 100 ug

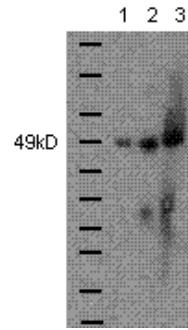
Formulation: Phosphate buffered saline, pH 7.2, less than or equal to 0.09% NaN₃

Storage Conditions: Store at 4°C.

Avoid repeated freeze/thaw cycles.

Clone: eBioEvan

Isotype: Rat IgG2a, κ



eBioEvan (2ug/ml) was used in a western blot of SDS lysates. Lane 1: NIH-3T3, Lane 2: C57Bl/6 mouse heart, Lane 3: BALB/c mouse heart.

Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
14-9980	Anti-Human/Mouse Gata-4 Purified	N/A	N/A	WB

Flow Cytometry Product Notes:

Test Sizes: To accommodate multicolor flow cytometry, eBioscience is in the process of reducing test size volumes from 20 µl to 5 µl. Please check your antibody vial for the recommended test size.

Fluorochrome Replacements: eBioscience is in the process of replacing all Pacific Blue® and APC-Alexa Fluor® 750 conjugated products with eFluor™ 450 and APC-eFluor™ 780 conjugated products, respectively.

Custom Product Requests

Need a custom product? Download the Custom Product Request Form and submit completed form to customs@ebioscience.com.

Questions? Please consult our answers to frequently asked questions at <http://www.ebioscience.com/faq>.

Description

The eBioEvan monoclonal antibody reacts with mouse and human Gata-4. In a western blot of C57Bl/6 and BALB/c mouse heart lysates, a single band is present, suggesting that this antibody does not cross-react with Gata-5 or Gata-6, which are also expressed in the heart, but with different molecular weights. The eBioEvan monoclonal antibody has been successfully used in flow cytometry on HEK 293T cells transiently transfected with either mouse Gata-4 or human Gata-4.

Gata-4 is a member of the GATA family of transcription factors, which are characterized by a conserved DNA binding domain containing two zinc fingers. The mouse Gata-4 gene encodes a protein of 48kDa. Studies show that Gata-4 plays an important role in controlling cardiomyocyte differentiation, proliferation and survival. Gata-4 is expressed during fetal development, as well as in the adult mouse heart. It also appears to modulate gene expression in the gut, liver, and gonads.

Applications Reported

For research use only, not for diagnostic or therapeutic use. This eBioEvan antibody has been reported for use in immunoblotting (WB).

Applications Tested

This eBioEvan antibody has been tested by western blot analysis of mouse heart lysates. As a starting dilution, it is recommended to use this purified antibody at 2µg/ml for western blot analysis.

References

Kelley C, Blumberg H, Zon LI, Evans T. GATA-4 is a novel transcription factor expressed in endocardium of the developing heart. *Development*. 1993 Jul;118(3):817-27.

Molkentin JD. The zinc finger-containing transcription factors GATA-4, -5, and -6. Ubiquitously expressed regulators of tissue-specific gene expression. *J Biol Chem*. 2000 Dec 15;275(50):38949-52.

Charron F, Nemer M. GATA transcription factors and cardiac development. *Semin Cell Dev Biol*. 1999 Feb;10(1):85-91.

Peterkin T, Gibson A, Loose M, Patient R. The roles of GATA-4, -5 and -6 in vertebrate heart development. *Semin Cell Dev Biol*. 2005 Feb;16(1):83-94. Epub 2004 Dec 15.

Related Products

Cat. 14-4321 Affinity Purified Rat IgG2a Isotype Control

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