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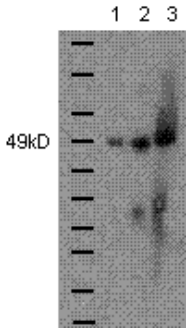
Anti-Human/Mouse Gata-4 Purified

Catalog Number: 14-9980
Also Known As:Gata4
RUO: For Research Use Only



Anti-Human/Mouse Gata-4 Purified (2 µg/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.

Product Information

Contents: Anti-Human/Mouse Gata-4 Purified
REF Catalog Number: 14-9980
Clone: eBioEvan
Concentration: 0.5 mg/ml
Host/Isotype: Rat IgG2a, κ

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C.
LOT Batch Code: Refer to Vial
Use By: Refer to Vial
Caution, contains Azide

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

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

14-4321 Rat IgG2a K Isotype Control Purified

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