

Datasheet for ABIN969169

**anti-GATA4 antibody**[Go to Product page](#)

1 Image

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## Overview

Quantity:	100 µL
Target:	GATA4
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This GATA4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

## Product Details

Purpose:	GATA4 Antibody
Immunogen:	Purified recombinant fragment of human GATA4 expressed in E. Coli.
Clone:	6H10
Isotype:	IgG2b
Purification:	Ascitic fluid

## Target Details

Target:	GATA4
Alternative Name:	GATA4 ( <a href="#">GATA4 Products</a> )
Background:	Description: GATA binding protein 4, also known as GATA4, it is a 46 kDa member of the GATA family of zinc-finger transcription factors. Members of this family is involved in the

## Target Details

development of cardiac hypertrophy and remodeling, and plays a critical role in regulating basal and agonist or stress induced gene expression in cardiac and smooth muscle cell types. These factors recognize the GATA motif which is present in the promoters of many genes. GATA4 contains a conserved MAPK phosphorylation site at serine 105 within the transcriptional activation domain. Serine 105 of GATA4 is phosphorylated in response to agonist stimulation through MEK 1 ERK1 / 2, and weakly through JNK or p38 MAPKs. GATA4 is thought to regulate genes involved in embryogenesis and in myocardial differentiation and function. Mutations in this gene have been associated with cardiac septal defects.

Aliases: MGC126629

Molecular Weight:	46kDa
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Gene ID:	2626
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HGNC:	2626
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UniProt:	<a href="#">P43694</a>
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Pathways:	<a href="#">Peptide Hormone Metabolism</a> , <a href="#">Carbohydrate Homeostasis</a>
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## Application Details

Application Notes:	ELISA: 1/10000
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Restrictions:	For Research Use only
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## Handling

Format:	Liquid
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Buffer:	Ascitic fluid containing 0.03 % sodium azide.
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Preservative:	Sodium azide
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Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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Storage:	4 °C,-20 °C
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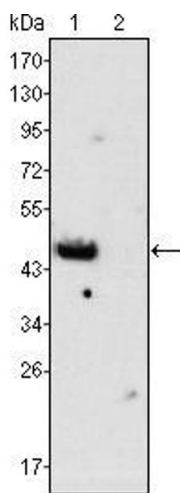
Storage Comment:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
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## Publications

Product cited in:	Rajagopal, Ma, Obler, Shen, Manichaikul, Tomita-Mitchell, Boardman, Briggs, Garg, Srivastava, Goldmuntz, Broman, Benson, Smoot, Pu: "Spectrum of heart disease associated with murine
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and human GATA4 mutation." in: **Journal of molecular and cellular cardiology**, Vol. 43, Issue 6, pp. 677-85, (2007) ([PubMed](#)).

Belaguli, Sepulveda, Nigam, Charron, Nemer, Schwartz: "Cardiac tissue enriched factors serum response factor and GATA-4 are mutual coregulators." in: **Molecular and cellular biology**, Vol. 20, Issue 20, pp. 7550-8, (2000) ([PubMed](#)).



Western Blotting

**Image 1.** Western blot analysis using GATA4 mouse mAb against rat fetal heart (1) and adult heart (2) tissues lysate.