

## Anti-GATA4 Monoclonal Antibody

Catalog Number: M00499

### About GATA4

GATA4, also known as GATA-binding factor 4, acts in cooperation with NKX2-5 as a transcriptional activator of ANF. It binds to the consensus sequence 5'-AGATAG-3' on DNA. GATA4 is critical for the enlargement of cardiac myocytes. Mutations in GATA4 have been linked with congenital heart malfunctions and malformations. Anti-GATA4 antibody is ideal for researchers interested in developmental biology, stem cell research, cell growth and cancer research.

### Overview

Product Name	Anti-GATA4 Monoclonal Antibody
Reactive Species	Human
Description	Boster Bio Anti-GATA4 Monoclonal Antibody (Catalog # M00499). Tested in ELISA, WB applications. This antibody reacts with Human.
Application	ELISA, WB
Clonality	Monoclonal Clone: 10D8.B10.D4
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	Store vial at -20°C prior to opening. Aliquot contents and freeze at -20°C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Mouse
Uniprot ID	P43694

### Technical Details

Immunogen	GATA4 protein A purified antibody was prepared in mice by repeated immunizations with a recombinant protein corresponding to the first 100 amino acids of human GATA4 protein.
Isotype	IgG1 kappa
Form	Liquid (sterile filtered)
Concentration	1.0mg/mL by UV absorbance at 280 nm
Purification	Anti-GATA4 was purified from concentrated tissue culture supernatant Protein A chromatography. A BLAST analysis was used to suggest reactivity with mouse and rat GATA4 based on a 93% homology. Cross-reactivity with GATA4 from other sources has not been determined.

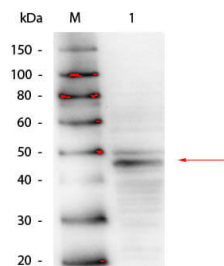
Suggested Dilutions

ELISA: 1:2000 - 1:10,000

WB: 1:500 - 1:1000

Anti-GATA4 antibody has been tested by ELISA and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 44 kDa in size corresponding to GATA4 by western blotting in the appropriate cell lysate or extract.

## Anti-GATA4 Monoclonal Antibody (M00499) Images



Western Blot of Mouse anti-GATA4 Antibody. Lane 1: CCRF-CEM Lysate. Load: 25  $\mu$ g per lane. Primary antibody: GATA-4 antibody at 1:500 overnight at 4°C. Secondary antibody: anti-mouse IgG HRP antibody at 1:40,000 for 30 min at RT. Block: 30 min at RT. Predicted/Observed size: 44.5 kDa, 44.5 kDa for GATA4.

## 2 Publications Citing This Product

1. PubMed ID: 23533594, Liu J, Wang Y, Du W, Liu W, Liu F, Zhang L, Zhang M, Hou M, Liu K, Zhang S, Yu B. Plos One. 2013;8(3):E58883. Doi: 10.1371/Journal.Pone.0058883. Epub 2013 Mar 22. Wnt1 Inhibits Hydrogen Peroxide-Induced Apoptosis In Mouse Cardiac Stem Cells.
2. PubMed ID: 24520255, Differentiation of human embryonic germ cells and transplantation in rats with acute myocardial infarction

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