

**GATA4 Antibody (C-term) (Ascites)**  
**Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM2110a**

### Specification

#### **GATA4 Antibody (C-term) (Ascites) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P43694</a>
Other Accession	<a href="#">P46152</a> , <a href="#">Q08369</a> , <a href="#">P70005</a> , <a href="#">NP_002043</a>
Reactivity	Human
Predicted	Xenopus, Mouse, Rat
Host	Mouse
Clonality	Monoclonal
Isotype	IgM
Calculated MW	44565
Antigen Region	298-328

#### **GATA4 Antibody (C-term) (Ascites) - Additional Information**

##### **Gene ID** 2626

##### **Other Names**

Transcription factor GATA-4, GATA-binding factor 4, GATA4

##### **Target/Specificity**

This GATA4 antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 298-328 amino acids from the C-terminal region of human GATA4.

##### **Dilution**

WB~~1:500~1000

E~~Use at an assay dependent concentration.

##### **Format**

Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.

##### **Storage**

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.

##### **Precautions**

GATA4 Antibody (C-term) (Ascites) is for research use only and not for use in diagnostic or therapeutic procedures.

#### **GATA4 Antibody (C-term) (Ascites) - Protein Information**

##### **Name** GATA4

**Function** Transcriptional activator that binds to the consensus sequence 5'-AGATAG-3' and plays

a key role in cardiac development and function (PubMed:[24000169](#), PubMed:[27984724](#), PubMed:[35182466](#)). In cooperation with TBX5, it binds to cardiac super-enhancers and promotes cardiomyocyte gene expression, while it down-regulates endocardial and endothelial gene expression (PubMed:[27984724](#)). Involved in bone morphogenetic protein (BMP)-mediated induction of cardiac-specific gene expression. Binds to BMP response element (BMPRE) DNA sequences within cardiac activating regions (By similarity). Acts as a transcriptional activator of ANF in cooperation with NKX2-5 (By similarity). Promotes cardiac myocyte enlargement (PubMed:[20081228](#)). Required during testicular development (PubMed:[21220346](#)). May play a role in sphingolipid signaling by regulating the expression of sphingosine-1-phosphate degrading enzyme, sphingosine-1-phosphate lyase (PubMed:[15734735](#)).

#### Cellular Location

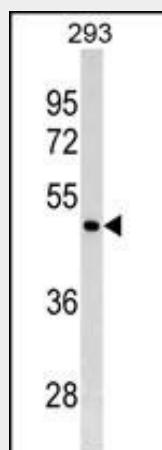
Nucleus

#### GATA4 Antibody (C-term) (Ascites) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### GATA4 Antibody (C-term) (Ascites) - Images



GATA4 Antibody (C-term)(Ascites)(Cat. #AM2110a) western blot analysis in 293 cell line lysates (35 $\mu$ g/lane). This demonstrates the GATA4 antibody detected the GATA4 protein (arrow).

#### GATA4 Antibody (C-term) (Ascites) - Background

This gene encodes a member of the GATA family of zinc-finger transcription factors. Members of this family recognize the GATA motif which is present in the promoters of many genes. This protein 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. [provided by

RefSeq].

#### **GATA4 Antibody (C-term) (Ascites) - References**

- Sood, A., et al. Am. J. Respir. Crit. Care Med. 182(9):1098-1104(2010)  
Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)  
De Luca, A., et al. Clin. Genet. (2010) In press :  
Wang, J., et al. Zhonghua Xin Xue Guan Bing Za Zhi 38(5):429-434(2010)  
Guida, V., et al. Dis. Markers 28(5):287-292(2010)