

**GATA-4 Polyclonal Antibody**  
**Catalog # AP70044****Specification**

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**GATA-4 Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IF
Primary Accession	<a href="#">P43694</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

**GATA-4 Polyclonal Antibody - Additional Information****Gene ID** 2626**Other Names**

GATA4; Transcription factor GATA-4; GATA-binding factor 4

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.

IHC-P~~N/A

IF~~1:50~200

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**GATA-4 Polyclonal Antibody - 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:<a href="http://www.uniprot.org/citations/24000169" target="\_blank">24000169</a>, PubMed:<a href="http://www.uniprot.org/citations/27984724" target="\_blank">27984724</a>, PubMed:<a href="http://www.uniprot.org/citations/35182466" target="\_blank">35182466</a>). 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:<a href="http://www.uniprot.org/citations/27984724" target="\_blank">27984724</a>). 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:<a href="http://www.uniprot.org/citations/20081228" target="\_blank">20081228</a>). Required during testicular development (PubMed:<a href="http://www.uniprot.org/citations/20081228" target="\_blank">20081228</a>).

[21220346](http://www.uniprot.org/citations/21220346)). May play a role in sphingolipid signaling by regulating the expression of sphingosine-1-phosphate degrading enzyme, sphingosine-1-phosphate lyase (PubMed: [15734735](http://www.uniprot.org/citations/15734735)).

#### Cellular Location

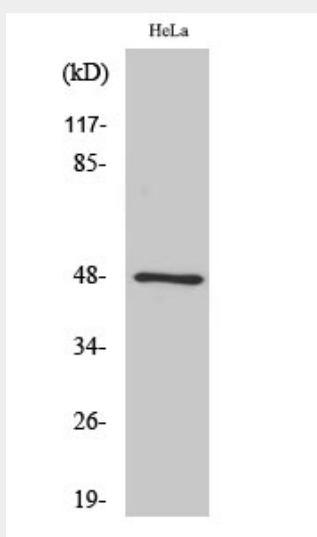
Nucleus

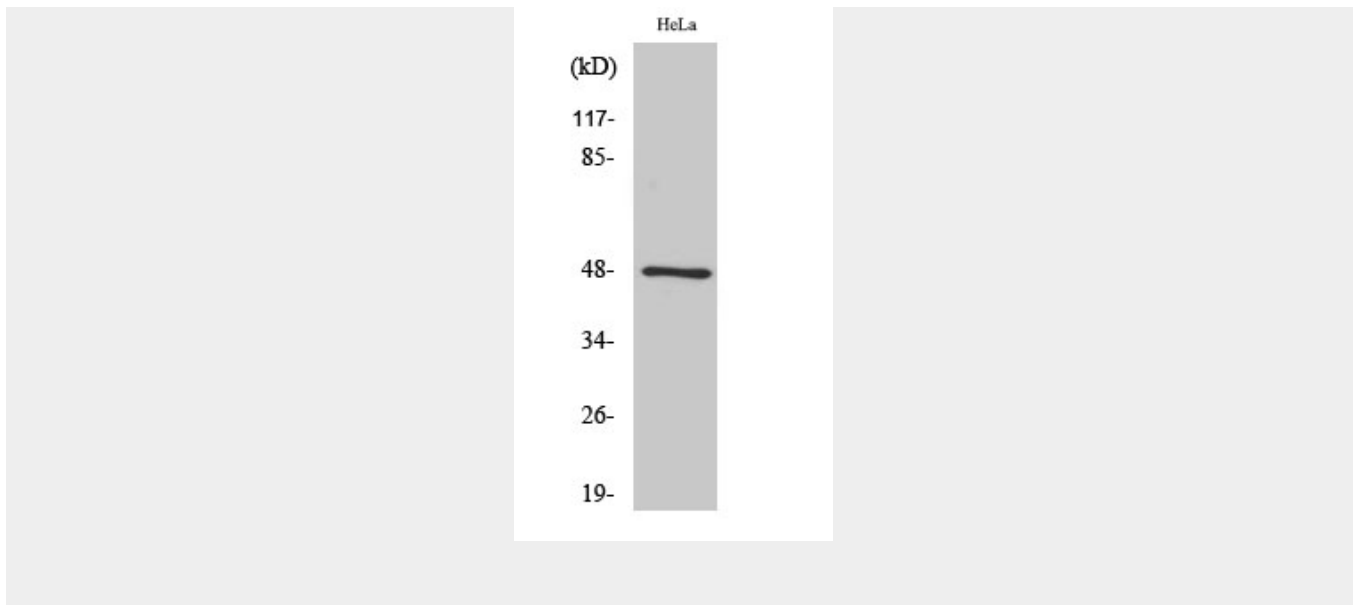
#### GATA-4 Polyclonal Antibody - Protocols

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](#)

#### GATA-4 Polyclonal Antibody - Images





#### **GATA-4 Polyclonal Antibody - Background**

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). In cooperation with TBX5, it binds to cardiac super-enhancers and promotes cardiomyocyte gene expression, while it downregulates 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).