

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

Application	WB
Primary Accession	P43694
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.

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:[24000169](http://www.uniprot.org/citations/24000169)), PubMed:[27984724](http://www.uniprot.org/citations/27984724)), PubMed:[35182466](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/20081228)). Required during testicular development (PubMed:[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).

Cellular Location

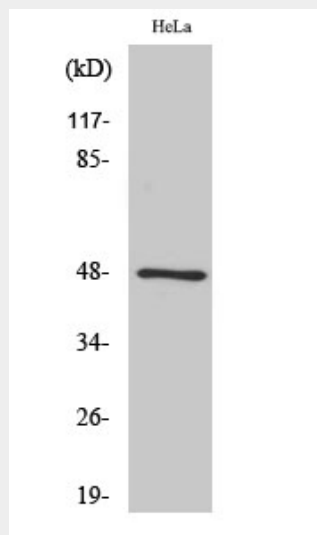
Nucleus

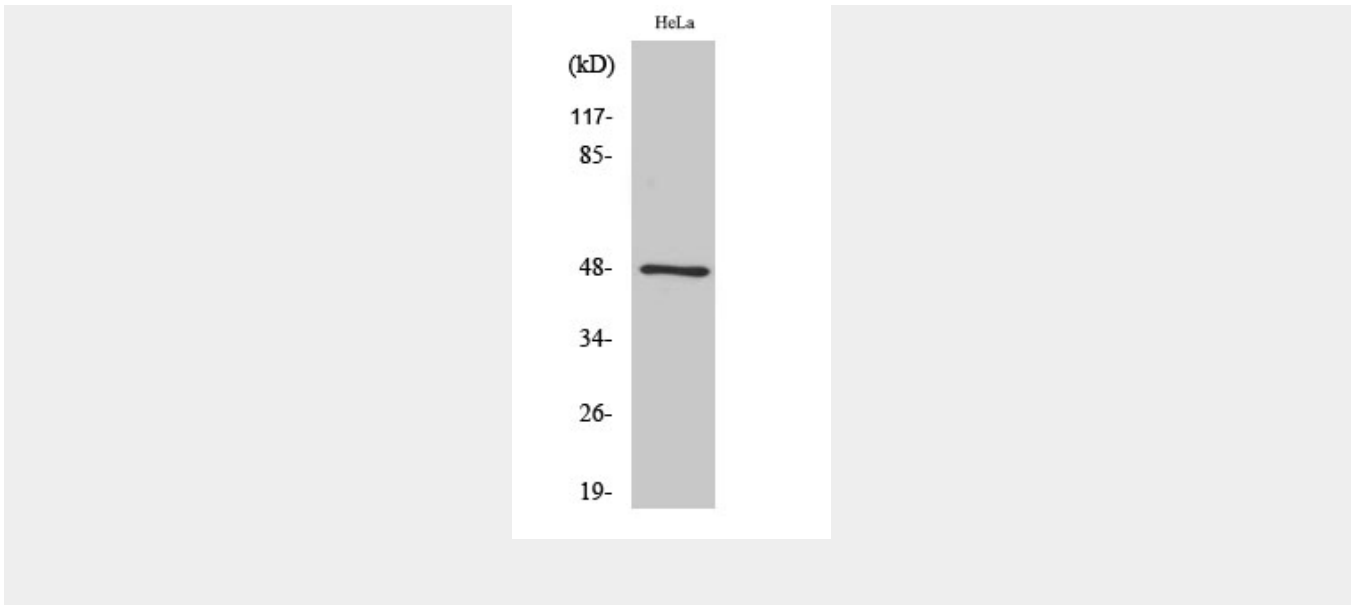
GATA-4 Polyclonal Antibody - Protocols

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).