

GATA4 Antibody
Rabbit mAb
Catalog # AP91244

Specification

GATA4 Antibody - Product Information

Application	WB, FC, ICC
Primary Accession	P43694
Reactivity	Rat
Clonality	Monoclonal
Other Names	
ASD2; GATA 4; GATA binding protein 4; gata4; Transcription factor GATA 4; VSD1;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	44565 Da

GATA4 Antibody - Additional Information

Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human GATA4
Description	Involved in bone morphogenetic protein (BMP)-mediated induction of cardiac-specific gene expression (By similarity). 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). Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage Condition and Buffer	

GATA4 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). 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

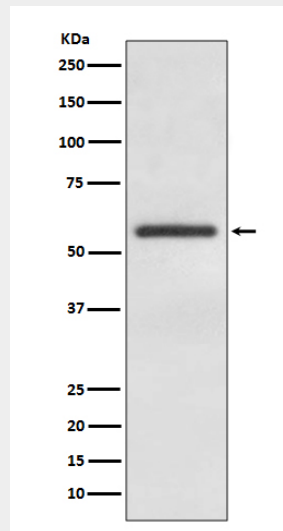
Nucleus

GATA4 Antibody - 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 - Images



Western blot analysis of GATA4 expression in HeLa cell lysate.