

## **Anti-GATA5 Picoband Antibody**

**Catalog # ABO11891** 

### **Specification**

## **Anti-GATA5 Picoband Antibody - Product Information**

Application WB
Primary Accession Q9BWX5
Host Rabbit
Reactivity Human, Rat
Clonality Polyclonal
Format Lyophilized

**Description** 

Rabbit IgG polyclonal antibody for Transcription factor GATA-5(GATA5) detection. Tested with WB in Human; Rat.

### Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

## **Anti-GATA5 Picoband Antibody - Additional Information**

### **Gene ID 140628**

### **Other Names**

Transcription factor GATA-5, GATA-binding factor 5, GATA5 (<a href="http://www.genenames.org/cgi-bin/gene\_symbol\_report?hgnc\_id=15802" target="blank">HGNC:15802</a>)

### Calculated MW 41299 MW KDa

## **Application Details**

Western blot, 0.1-0.5 µg/ml, Rat, Human<br>

### **Subcellular Localization**

Nucleus .

#### **Protein Name**

Transcription factor GATA-5

#### Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

#### **Immunogen**

E.coli-derived human GATA5 recombinant protein (Position: M1-A397). Human GATA5 shares 75% amino acid (aa) sequence identity with mouse GATA5.

## **Purification**

Immunogen affinity purified.



**Cross Reactivity**No cross reactivity with other proteins

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

**Sequence Similarities**Contains 2 GATA-type zinc fingers.

## **Anti-GATA5 Picoband Antibody - Protein Information**

Name GATA5 (HGNC:15802)

### **Function**

Transcription factor required during cardiovascular development (PubMed:<a href="http://www.uniprot.org/citations/23289003" target="\_blank">23289003</a>). Plays an important role in the transcriptional program(s) that underlies smooth muscle cell diversity (By similarity). Binds to the functionally important CEF-1 nuclear protein binding site in the cardiac-specific slow/cardiac troponin C transcriptional enhancer (PubMed:<a href="http://www.uniprot.org/citations/25543888" target="blank">25543888</a>).

**Cellular Location** Nucleus.

### **Anti-GATA5 Picoband 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 Cytomety
- Cell Culture

# **Anti-GATA5 Picoband Antibody - Images**





Anti- GATA5 antibody, ABO11891, Western blottingAll lanes: Anti GATA5 (ABO11891) at 0.5ug/mlLane 1: Rat Liver Tissue Lysate at 50ugLane 2: Rat Brain Tissue Lysate at 50ugLane 3: Rat Ovary Tissue Lysate at 50ugPredicted bind size: 42KDObserved bind size: 42KD

# **Anti-GATA5 Picoband Antibody - Background**

Transcription factor GATA-5, also named GATAS or GATA5, is a protein that in humans is encoded by the GATA5 gene. It is mapped to 20q13.33. The protein encoded by this gene is a transcription factor that contains two GATA-type zinc fingers. The encoded protein is known to bind to hepatocyte nuclear factor-1alpha (HNF-1alpha), and this interaction is essential for cooperative activation of the intestinal lactase-phlorizin hydrolase promoter. In other organisms, similar proteins may be involved in the establishment of cardiac smooth muscle cell diversity. In addition, the expression of GATA5 increased in a human colon cancer cell line within 2 hours of exposure to sodium butyrate, which induces differentiation.