

**Anti-GATA3 Picoband Antibody**  
Catalog # ABO11890**Specification**

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**Anti-GATA3 Picoband Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P23771</a>
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Trans-acting T-cell-specific transcription factor GATA-3(GATA3) detection. Tested with WB in Human;Rat.

**Reconstitution**

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

**Anti-GATA3 Picoband Antibody - Additional Information**

**Gene ID** 2625

**Other Names**

Trans-acting T-cell-specific transcription factor GATA-3, GATA-binding factor 3, GATA3

**Calculated MW**

47916 MW KDa

**Application Details**

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

**Subcellular Localization**

Nucleus.

**Tissue Specificity**

T-cells and endothelial cells.

**Protein Name**

Trans-acting T-cell-specific transcription factor GATA-3

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>.

**Immunogen**

E.coli-derived human GATA3 recombinant protein (Position: M1-E197). Human GATA3 shares 95% amino acid (aa) sequence identity with mouse GATA3.

**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-GATA3 Picoband Antibody - Protein Information

**Name** GATA3

### Function

Transcriptional activator which binds to the enhancer of the T-cell receptor alpha and delta genes. Binds to the consensus sequence 5'-AGATAG-3'. Required for the T-helper 2 (Th2) differentiation process following immune and inflammatory responses. Positively regulates ASB2 expression (By similarity). Coordinates macrophage transcriptional activation and UCP2-dependent metabolic reprogramming in response to IL33. Upon tissue injury, acts downstream of IL33 signaling to drive differentiation of inflammation-resolving alternatively activated macrophages.

### Cellular Location

Nucleus.

### Tissue Location

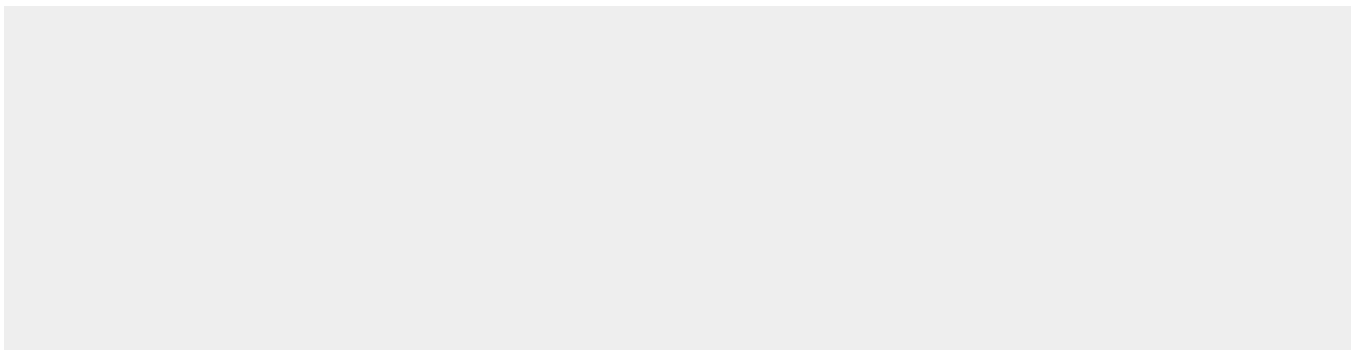
T-cells and endothelial cells.

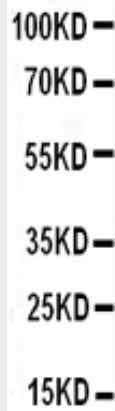
## Anti-GATA3 Picoband Antibody - Protocols

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

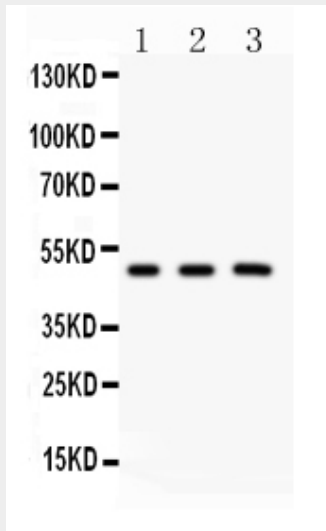
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-GATA3 Picoband Antibody - Images





Anti- GATA3 antibody, ABO11890, Western blotting All lanes: Anti GATA3 (ABO11890) at 0.5ug/ml WB: Recombinant Human GATA3 Protein 0.5ng Predicted bind size: 39KD Observed bind size: 39KD



Anti- GATA3 antibody, ABO11890, Western blotting All lanes: Anti GATA3 (ABO11890) at 0.5ug/ml Lane 1: Rat Brain Tissue Lysate at 50ug Lane 2: MCF-7 Whole Cell Lysate at 40ug Lane 3: HEPG2 Whole Cell Lysate at 40ug Predicted bind size: 48KD Observed bind size: 48KD

**Anti-GATA3 Picoband Antibody - Background**

Trans-acting T-cell-specific transcription factor GATA-3, also named HDR or GATA3, is a protein that in humans is encoded by the GATA3 gene. It is mapped to 10p14. This gene belongs to the GATA family of transcription factors. It regulates luminal epithelial cell differentiation in the mammary gland. The protein contains two GATA-type zinc fingers, it is an important regulator of T cell development and plays an important role in endothelial cell biology. GATA3 has been shown to promote the secretion of IL-4, IL-5, and IL-13 from Th2 cells, and induces the differentiation of Th0 cells towards this T cell subtype while suppressing their differentiation towards Th1 cells.