10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

Anti-GATA3 Picoband Antibody

Catalog # ABO11890

Specification

Anti-GATA3 Picoband Antibody - Product Information

Application	**WB**
Primary Accession	P23771
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

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 Na2HPO4, 0.05mg NaN3.

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.

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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 Cytomety
- Cell Culture

Anti-GATA3 Picoband Antibody - Images

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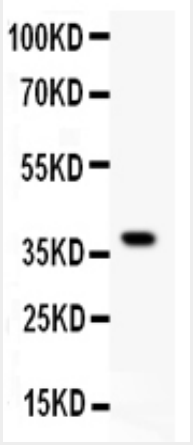
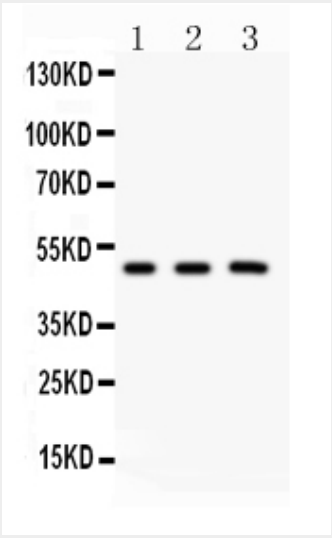


Anti- GATA3 antibody, ABO11890, Western blottingAll lanes: Anti GATA3 (ABO11890) at 0.5ug/mlWB: Recombinant Human GATA3 Protein 0.5ngPredicted bind size: 39KDObserved bind size: 39KD



Anti- GATA3 antibody, ABO11890, Western blottingAll lanes: Anti GATA3 (ABO11890) at 0.5ug/mlLane 1: Rat Brain Tissue Lysate at 50ugLane 2: MCF-7 Whole Cell Lysate at 40ugLane 3: HEPG2 Whole Cell Lysate at 40ugPredicted bind size: 48KDObserved 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.