

Anti-GATA3 Antibody Picoband™

Catalog Number: PB9199

About GATA3

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.

Overview

Product Name	Anti-GATA3 Antibody Picoband™
Reactive Species	Human, Rat
Description	Boster Bio Anti-GATA3 Antibody Picoband™ catalog # PB9199. Tested in WB applications. This antibody reacts with Human, Rat.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P23771

Technical Details

Immunogen	E.coli-derived human GATA3 recombinant protein (Position: M1-E197). Human GATA3 shares 95% amino acid (aa) sequence identity with mouse GATA3.
Predicted Reactive Species	Human
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.1-0.5ug/ml, Human, Rat

Anti-GATA3 Antibody Picoband™ (PB9199) Images



Figure 1. Western blot analysis of GATA3 using anti-GATA3 antibody (PB9199).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. Lane 1: recombinant human GATA3 protein 0.5 ng. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-GATA3 antigen affinity purified polyclonal antibody (Catalog # PB9199) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for GATA3 at approximately 39 kDa. The expected band size for GATA3 is at 39 kDa.

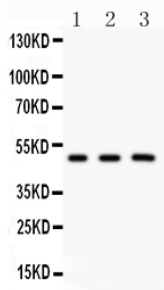


Figure 2. Western blot analysis of GATA3 using anti-GATA3 antibody (PB9199).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: rat brain tissue lysates, Lane 2: human MCF-7 whole cell lysates, Lane 3: human HepG2 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-GATA3 antigen affinity purified polyclonal antibody (Catalog # PB9199) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for GATA3 at approximately 48 kDa. The expected band size for GATA3 is at 48 kDa.

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