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Anti-GATA3 Picoband Antibody

Catalog # ABO11890

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.

Additional Information

Gene ID	2625
Other Names	Trans-acting T-cell-specific transcription factor GATA-3, GATA-binding factor 3, GATA3
Calculated MW	47916
Application Details	Western blot, 0.1-0.5 □g/ml, Human, Rat
Subcellular Localization	Nucleus.
Tissue Specificity	T-cells and endothelial cells.
Source	Eukaryota
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.
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.

Protein Information

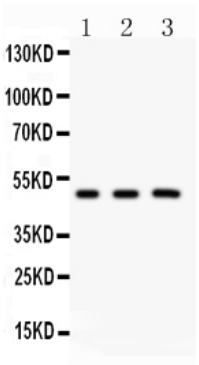
Name	GATA3
Function	Transcriptional activator which binds to the enhancer of the T-cell receptor alpha and delta genes. Binds to the consensus sequence 5'-AGATAG-3'. Required for the T-helper 2 (Th2) differentiation process following immune and inflammatory responses. Positively regulates ASB2 expression (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.

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.

Images

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