

**GATA3 Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO1403a****Specification**

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**GATA3 Antibody - Product Information**

Application	WB, IHC, E
Primary Accession	<a href="#">P23771</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	48kDa KDa

**Description**

This gene encodes a protein which belongs to the GATA family of transcription factors. The protein contains two GATA-type zinc fingers and is an important regulator of T-cell development and plays an important role in endothelial cell biology. Defects in this gene are the cause of hypoparathyroidism with sensorineural deafness and renal dysplasia. (provided by RefSeq) Tissue specificity: T-cells and endothelial cells RD: GATA-3 belongs to the GATA family of transcription factors, which bind to the consensus DNA sequence (A/T) GATA (A/G) to control diverse tissue-specific programs of gene expression and morphogenesis. It is widely expressed in mesodermal- and endodermal-derived tissues. GATA-3 has been shown to be an essential regulator for immune cell function, sympathetic neuron development, and the maintenance of the differentiated state in epithelial cells.

**Immunogen**

Purified recombinant fragment of human GATA3 expressed in E. Coli. <br />

**Formulation**

Ascitic fluid containing 0.03% sodium azide. <br />

**GATA3 Antibody - Additional Information**

**Gene ID** 2625

**Other Names**

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

**Dilution**

WB~~1/500 - 1/2000

IHC~~1/200 - 1/1000

E~~N/A

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

GATA3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## GATA3 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.

## GATA3 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](#)

## GATA3 Antibody - Images

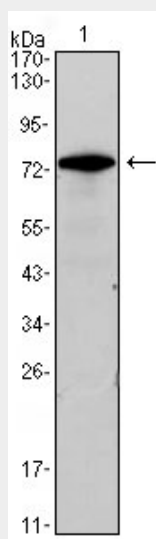


Figure 1: Western blot analysis using GATA3 mouse mAb against GATA3(AA: full length)-hlgGfc transfected HEK293 cell lysate.

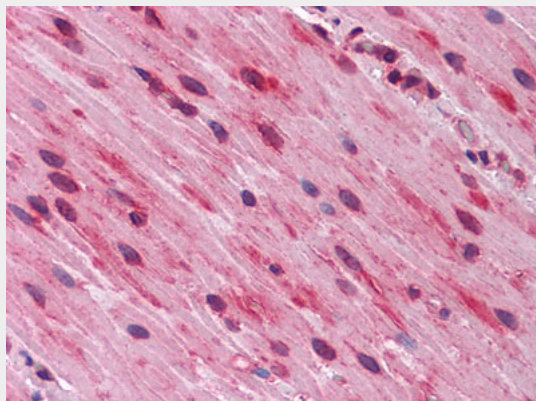


Figure 2: Immunohistochemical analysis of paraffin-embedded human Small Intestine, muscularis propria tissues using anti-GATA3 mouse mAb

#### **GATA3 Antibody - References**

1. Biogerontology. 2009 Oct;10(5):593-604.
2. Arthritis Rheum. 2009 Mar;60(3):750-9.