

**Goat Anti-GATA3 Antibody**  
Peptide-affinity purified goat antibody  
Catalog # AF1466a

**Specification**

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**Goat Anti-GATA3 Antibody - Product Information**

Application	IHC, WB
Primary Accession	<a href="#">P23771</a>
Other Accession	<a href="#">NP_002042</a> , <a href="#">2625</a> , <a href="#">14462 (mouse)</a>
Reactivity	Human
Predicted	Mouse, Rat, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	47916

**Goat Anti-GATA3 Antibody - Additional Information**

**Gene ID** 2625

**Other Names**

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

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**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**

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

**Goat Anti-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

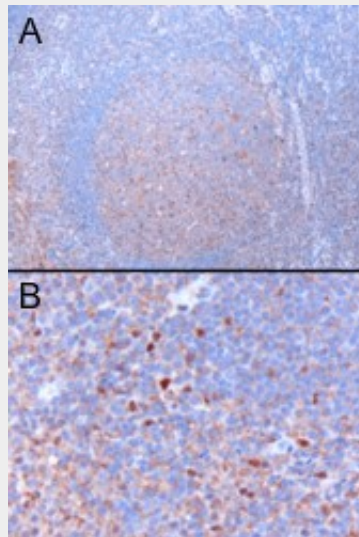
T-cells and endothelial cells.

### Goat Anti-GATA3 Antibody - Protocols

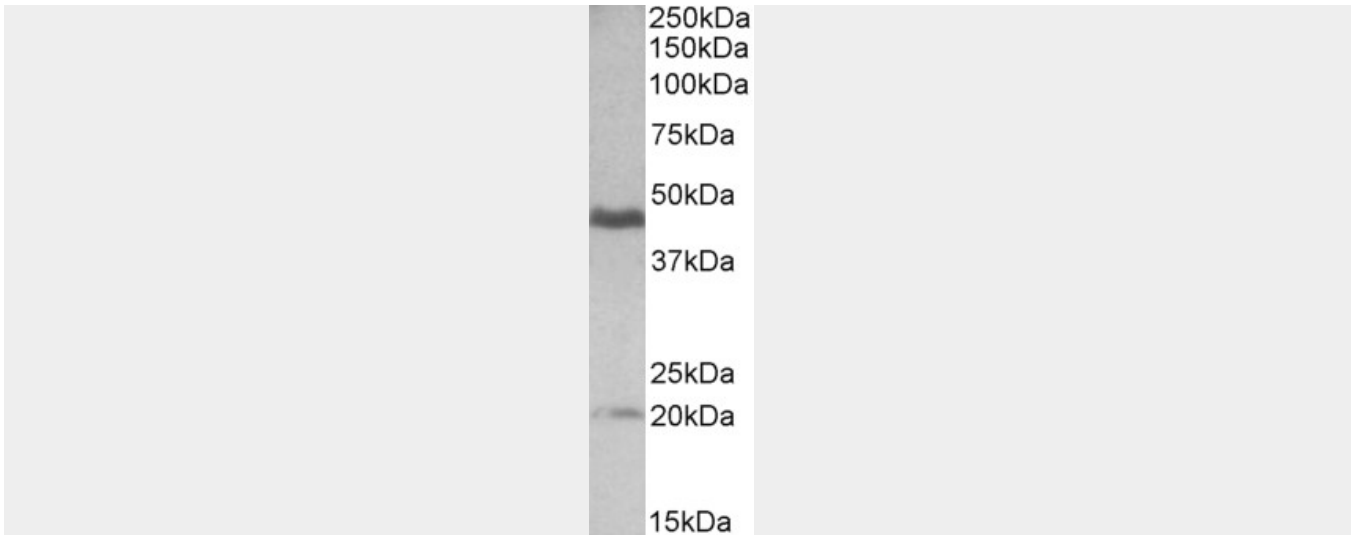
Provided below are standard protocols that you may find useful for product applications.

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

### Goat Anti-GATA3 Antibody - Images



AF1466a (3  $\mu$ g/ml) staining of paraffin embedded Human Tonsil. Microwaved antigen retrieval with citrate buffer pH 6, HRP-staining. A) staining of cells in the germinal centre, B) staining of cells in the interfollicular area. Note this data was obtained using a previous batch.



AF1466a (0.3  $\mu\text{g/ml}$ ) staining of Human Tonsil lysate (35  $\mu\text{g}$  protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

#### **Goat Anti-GATA3 Antibody - Background**

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.

#### **Goat Anti-GATA3 Antibody - References**

Interleukin-9 polymorphism in infants with respiratory syncytial virus infection: an opposite effect in boys and girls. Schuurhof A, et al. *Pediatr Pulmonol*, 2010 Jun. PMID 20503287.  
GATA3 siRNA inhibits the binding of NFAT1 to interleukin-13 promoter in human T cells. Yao X, et al. *Chin Med J (Engl)*, 2010 Mar 20. PMID 20368097.  
New genetic associations detected in a host response study to hepatitis B vaccine. Davila S, et al. *Genes Immun*, 2010 Apr. PMID 20237496.  
Lck mediates Th2 differentiation through effects on T-bet and GATA-3. Kemp KL, et al. *J Immunol*, 2010 Apr 15. PMID 20237292.  
GATA3 inhibits breast cancer metastasis through the reversal of epithelial-mesenchymal transition. Yan W, et al. *J Biol Chem*, 2010 Apr 30. PMID 20189993.