

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

Goat Anti-GATA3 Antibody - Product Information

Application	WB, IHC, E
Primary Accession	P23771
Other Accession	NP_002042 , 2625 , 14462 (mouse)
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

DilutionWB~~1:1000
IHC~~1:100~500
E~~N/A**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.

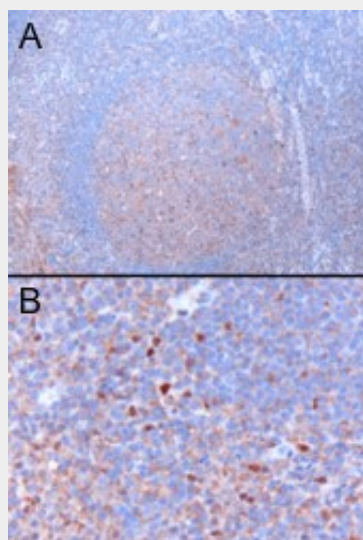
Tissue Location

T-cells and endothelial cells.

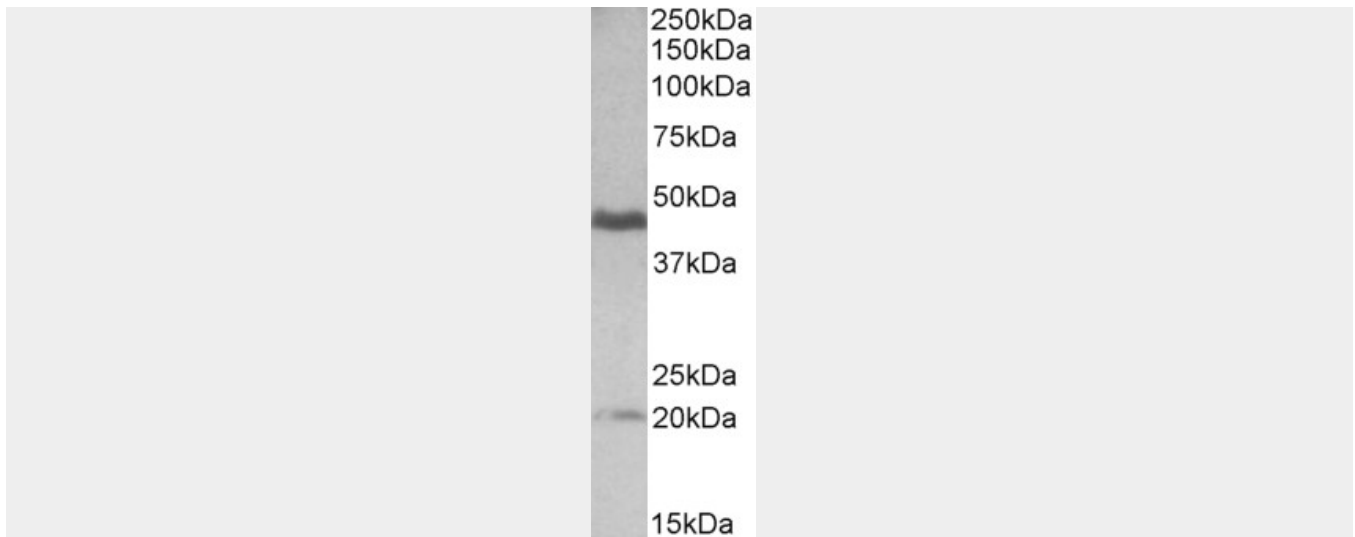
Goat Anti-GATA3 Antibody - Protocols

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 µg/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 µg/ml) staining of Human Tonsil lysate (35 µg 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.