

## Anti-GATA3 Antibody

Catalog Number: A00593

### About GATA3

GATA3 is a zinc finger transcription factor that was first recognized as a possible determinant of T cell development. Later studies demonstrated that it is expressed in trophoblast giant cells and regulates trophoblast-specific genes during development. Specifically, GATA3 is selectively expressed in the trophectoderm of the peri-implantation embryo and regulates CDX2, which is required for the transcriptional repression of the POU5F1/Oct4 and NANOG genes and is thus essential for the segregation of the inner cell mass and trophectoderm at the blastocyst stage. Decreased or null-expression expression of GATA3 has also been suggested to play a major role in the development and progression of luminal breast cancer.

### Overview

Product Name	Anti-GATA3 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-GATA3 Antibody (Catalog # A00593). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	GATA3 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	GATA3 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	P23771

### Technical Details

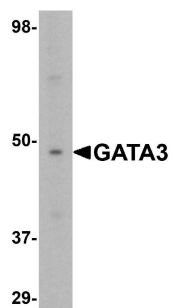
Immunogen	GATA3 antibody was raised against a 17 amino acid synthetic peptide near the carboxy terminus of human GATA3. The immunogen is located within amino acids 340 - 390 of GATA3.
Predicted Reactive Species	Bovine, Chicken, Pig
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	GATA3 Antibody is affinity chromatography purified via peptide column.

**Suggested Dilutions**

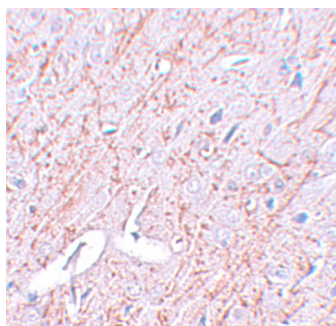
GATA3 antibody can be used for detection of GATA3 by Western blot at 1 - 2 ug/mL. Antibody can also be used for immunohistochemistry starting at 2.5 ug/mL. For immunofluorescence start at 20 ug/mL.

Antibody validated: Western Blot in human samples; Immunohistochemistry in mouse and rat samples and Immunofluorescence in mouse and rat samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

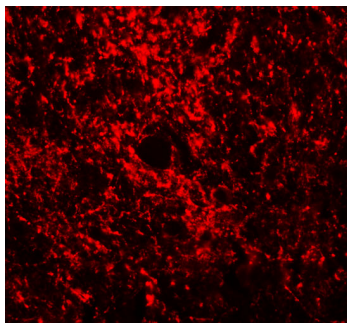
## Anti-GATA3 Antibody (A00593) Images



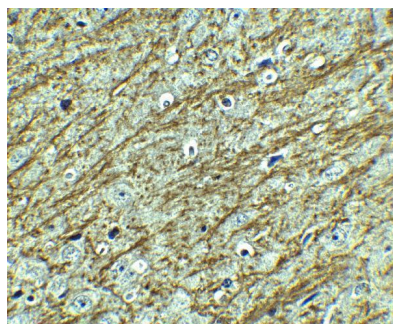
Western blot analysis of GATA3 in K562 cell lysate with GATA3 antibody at 1 ug/mL.



Immunohistochemistry of GATA3 in rat brain tissue with GATA3 antibody at 2.5 ug/mL.

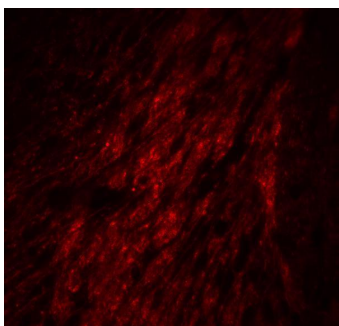


Immunofluorescence of GATA3 in Rat Brain tissue with GATA3 antibody at 20 ug/mL.



Immunohistochemistry of GATA3 in mouse brain tissue with GATA3 antibody at 2.5 ug/ml.

Immunofluorescence of GATA3 in mouse brain tissue with GATA3 Antibody at 20 ug/mL.



## 1 Publications Citing This Product

1. PubMed ID: 32976570, Ahluwalia A, Hoa N, Ge L, Blumberg B, Levin ER. Mechanisms by Which Membrane and Nuclear ER Alpha Inhibit Adipogenesis in Cells Isolated From Female Mice. *Endocrinology*. 2020 Nov 1;161(11):bqaa175.doi: 10.1210/endo/bqaa175.PMID:32976570.

Visit [bosterbio.com/anti-gata3-antibody-a00593-boster.html](https://bosterbio.com/anti-gata3-antibody-a00593-boster.html) to see all 1 publications.

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Anti-GATA3 Antibody

For Research Use Only. Not for use in diagnostic procedures.