

**GATA3 Antibody (Center)**  
**Purified Mouse Monoclonal Antibody (Mab)**  
**Catalog # AW5071****Specification**

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**GATA3 Antibody (Center) - Product Information**

Application	IF, WB, FC,E
Primary Accession	<a href="#">P23771</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	H=48 KDa
Isotype	IgG2b, $\kappa$
Antigen Source	HUMAN

**GATA3 Antibody (Center) - Additional Information****Gene ID** 2625**Other Names**

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

**Dilution**

IF~~1:25

WB~~ 1:1000

FC~~1:25

**Target/Specificity**

This GATA3 antibody is generated from a mouse immunized with a recombinant protein from human GATA3.

**Format**

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

**Storage**

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

**Precautions**

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

**GATA3 Antibody (Center) - 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.

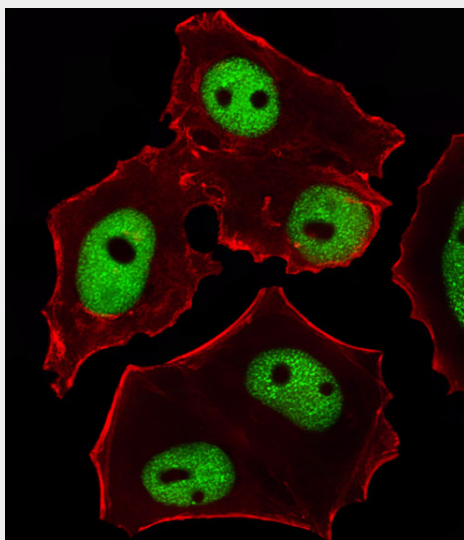
**Tissue Location**

T-cells and endothelial cells.

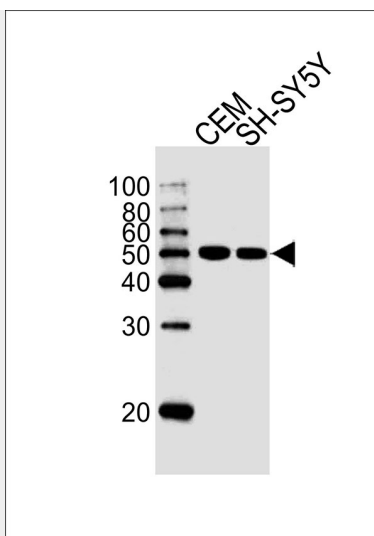
**GATA3 Antibody (Center) - Protocols**

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

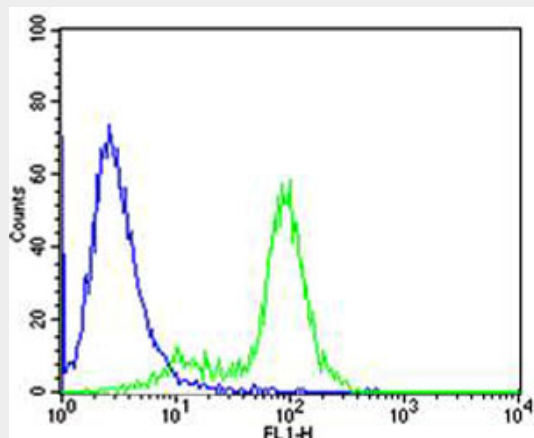
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**GATA3 Antibody (Center) - Images**

Fluorescent image of MCF-7 cells stained with GATA3 Antibody (Center)(Cat#AW5071). AW5071 was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated with Phalloidin (red).



Western blot analysis of lysates from CEM, SH-SY5Y cell line (from left to right), using GATA3 Antibody (Center)(Cat. #AW5071). AW5071 was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.



Flow cytometric analysis of MCF-7 cells using GATA3 Antibody (Center)(green, Cat#AW5071) compared to an isotype control of mouse IgG2b(blue). AW5071 was diluted at 1:25 dilution. An Alexa Fluor® 488 goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody.

### **GATA3 Antibody (Center) - Background**

Transcriptional activator which binds to the enhancer of the T-cell receptor alpha and delta genes. Binds to the consensus sequence 5'AGATAG-3'.

### **GATA3 Antibody (Center) - References**

- Joulin V., et al. EMBO J. 10:1809-1816(1991).
- Ho I.-C., et al. EMBO J. 10:1187-1192(1991).
- Ko L.J., et al. Mol. Cell. Biol. 11:2778-2784(1991).
- Marine J., et al. Proc. Natl. Acad. Sci. U.S.A. 88:7284-7288(1991).
- Deloukas P., et al. Nature 429:375-381(2004).