10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# GATA3 Antibody (Center)

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM2264b

## Product Information

| | |
|---|---|
| **Application** | WB, IHC, IF, FC, E |
| **Primary Accession** | P23771 |
| **Reactivity** | Human |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype** | IgG2b,κ |
| **Clone Names** | 1259CT707.136.102 |
| **Calculated MW** | 47916 |
| **Antigen Region** | 1-444 |

## Additional Information

| | |
|---|---|
| **Gene ID** | 2625 |
| **Other Names** | Trans-acting T-cell-specific transcription factor GATA-3, GATA-binding factor 3, GATA3 |
| **Target/Specificity** | This GATA3 antibody is generated from a mouse immunized with a recombinant protein from human GATA3. |
| **Dilution** | WB~~1:1000 IHC~~1:400 IF~~1:25 FC~~1:25 E~~Use at an assay dependent concentration. |
| **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. |

## 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.

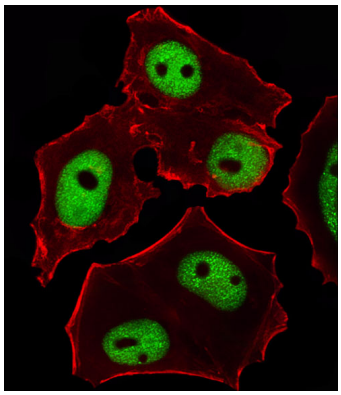
## Background

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

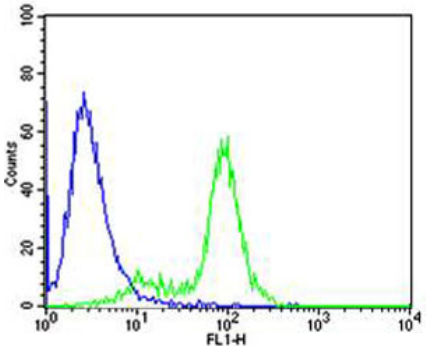
## References

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).

## Images

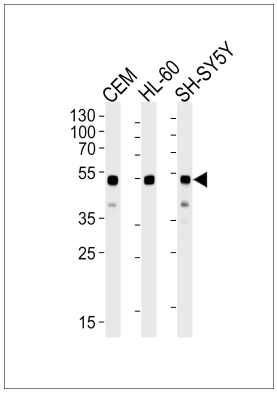


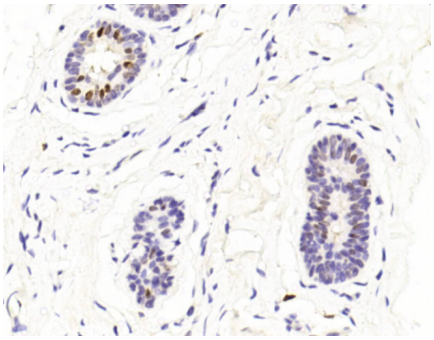
Fluorescent image of MCF-7 cells stained with GATA3 Antibody (Center)(Cat#AM2264b). AM2264b was diluted at 1:25 dilution. An Alexa Fluor® 488-conjugated goat anti-mouse lgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated with Phalloidin (red).




Flow cytometric analysis of MCF-7 cells using GATA3 Antibody (Center)(green, Cat#AM2264b) compared to an isotype control of mouse IgG2b(blue). AM2264b was diluted at 1:25 dilution. An Alexa Fluor® 488 goat anti-mouse lgG at 1:400 dilution was used as the secondary antibody.

Western blot analysis of lysates from CEM, HL-60, SH-SY5Y cell lines (from left to right) using GATA3 Antibody (Center) (Cat. # AM2264b). AM2264b was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:3000 dilution was used as the secondary antibody. Lysates at 35µg per lane.



Immunohistochemical analysis of paraffin-embedded Human Normal breast section using Pink1(Cat#AM2264b). AM2264b was diluted at 1:400 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.