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GATA3 Antibody (Center)
Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM2264b

Specification

GATA3 Antibody (Center) - Product Information

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

GATA3 Antibody (Center) - 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
IF~~1:25
WB~~1:1000
IHC~~1:400
FC~~1:25

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.

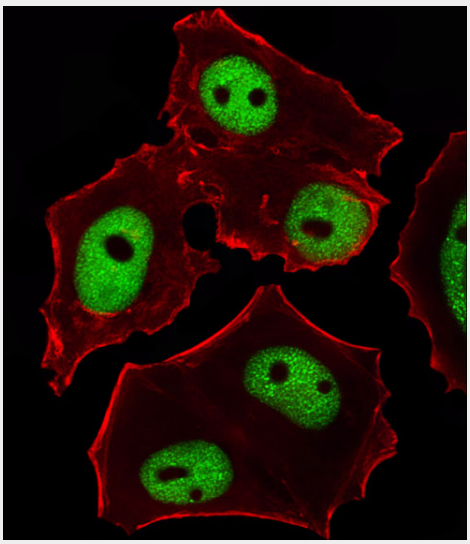
Tissue Location
T-cells and endothelial cells.

GATA3 Antibody (Center) - Protocols

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

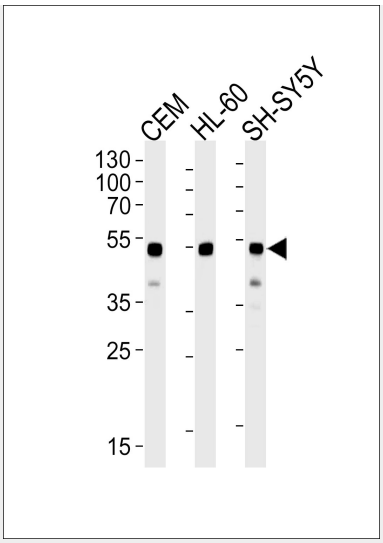
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GATA3 Antibody (Center) - Images

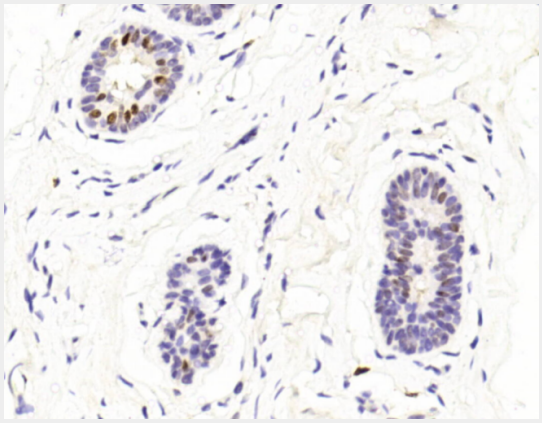


Fluorescent image of MCF-7 cells stained with GATA3 Antibody (Center)(Cat#AM2264b). AM2264b was diluted at 1:25 dilution. An Alexa Fluor® 488-conjugated goat anti-mouse lgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated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

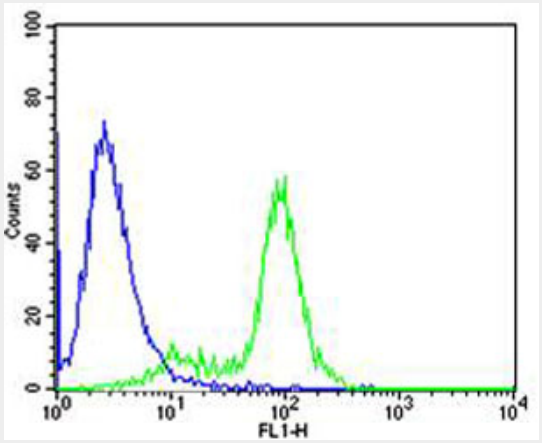
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Western blot analysis of lysates from CEM, HL-60, SH-SY5Y cell lines (from left to right) using GATA3 Antibody (Center) (Cat. # AM2264b). AM2264b was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:3000 dilution was used as the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



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 IgG at 1:400 dilution was used as the secondary antibody.

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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).