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 # AW5071

Product Information

Application	IF, FC, WB
Primary Accession	P23771
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	47916
Isotype	IgG2b,κ
Antigen Source	HUMAN

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 FC~~1:25 WB~~ 1:1000
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.

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.

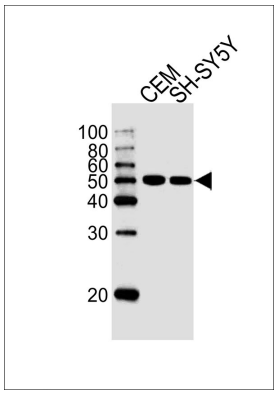
Background

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

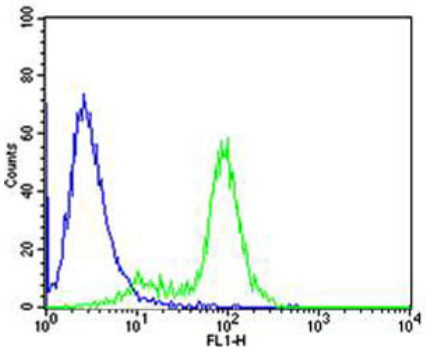
References

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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).
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Images

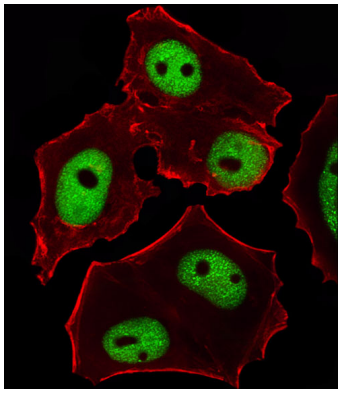


Western blot analysis of lysates from CEM, SH-SY5Y cell line (from left to right), using GATA3 Antibody (Center)(Cat. #AW5071). AW5071 was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.



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.

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).



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.