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GATA3 Antibody (Center)

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM2264b

Product Information

Application	WB, IHC, IF, FC, E
Primary Accession	P23771
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
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.

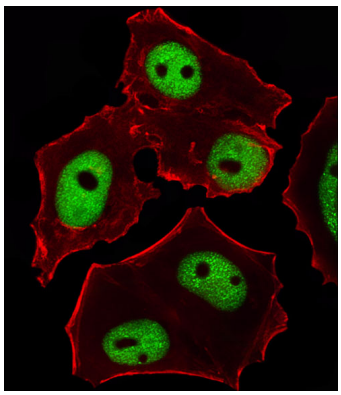
Background

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

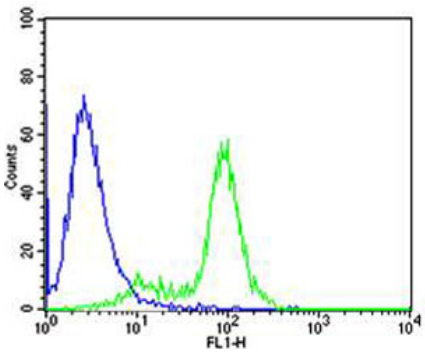
References

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

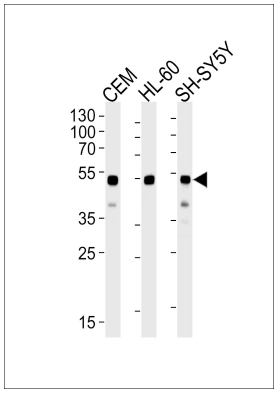


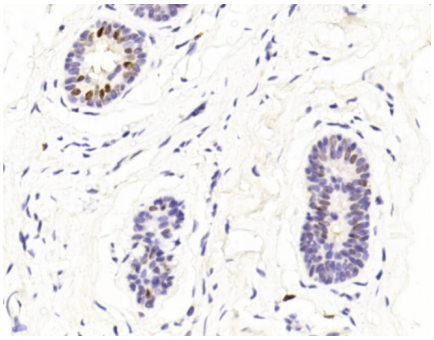
Fluorescent image of MCF-7 cells stained with GATA3 Antibody (Center)(Cat#AM2264b). AM2264b was diluted at 1:25 dilution. An Alexa Fluor® 488-conjugated goat anti-mouse lgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated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

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