bsm-51575M **[Primary Antibody]**

GATA3 Mouse mAb

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DATASHEET

Host: Mouse
Isotype: IgG2b,k
Clonality: Monoclonal
CloneNo.: G3G4
GeneID: 2625
SWISS: P23771
Target: GATA3
Purification: affinity purified by Protein G
Concentration: 1mg/ml
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Members of the GATA family share a conserved zinc finger DNA-binding domain and are capable of binding the WGATAR consensus sequence. GATA-1 is erythroid-specific and is responsible for the regulated transcription of erythroid genes. It is an essential component in the generation of the erythroid lineage. GATA-2 is expressed in embryonic brain and liver, HeLa and endothelial cells, as well as in erythroid cells. Studies with a modified GATA consensus sequence, AGATCTTA, have shown that GATA-2 and GATA-3 recognize this mutated consensus while GATA-1 has poor recognition of this sequence. This indicates broader regulatory capabilities of GATA-2 and GATA-3 than GATA-1. GATA-3 is highly expressed in T lymphocytes. GATA-4, GATA-5 and GATA-6 comprise a subfamily of transcription factors. Both GATA-4 and GATA-6 are found in heart, pancreas and ovary; lung and liver tissues exhibit GATA-6, but not GATA-4 expression. GATA-5 expression has been observed in differentiated heart and gut tissues and is present throughout the course of development in the heart. Although expression patterns of the various GATA transcription factors may overlap, it is not yet apparent how the GATA factors are able to discriminate in binding their appropriate target sites.

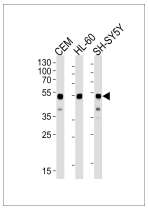
Applications: **WB** (1:500-1000)
Flow-Cyt (1:25)
ICC/IF (1:25)

Reactivity: Human

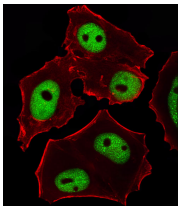
Predicted MW.: 49 kDa

Subcellular Location: Nucleus

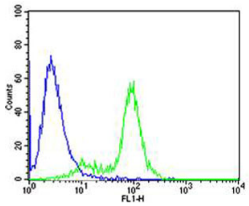
VALIDATION IMAGES



Sample: Lane 1: CEM cell lysates Lane 2: HL60 cell lysates Lane 3: SH-SY5Y cell lysates Primary: Anti-GATA3 (bsm-51575M) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 49 kD Observed band size: 52 kD



MCF7 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (GATA3) monoclonal Antibody, Unconjugated (bsm-51575M) 1:25, 90 minutes at 37°C; followed by a conjugated Goat Anti-Mouse IgG antibody at 37°C for 90 minutes,Alexa Fluor® 555 conjugated with Phalloidin(red) was used to stain the cell Cytoplasmic actin.



Blank control: MCF7. Primary Antibody (green line): Mouse Anti-GATA3 antibody (bsm-51575M) Dilution: 1:25; Isotype Control Antibody (blue line): Mouse IgG2b Secondary Antibody : Goat anti-mouse IgG-AF488 Dilution:1:400 Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at-20°C.The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.