

## GATA3 monoclonal antibody

Catalog: MB66939

Host: Mouse

Reactivity: Human

### BackGround:

GATA proteins comprise a group of transcription factors that are related by the presence of conserved zinc finger DNA-binding domains, which bind directly to the nucleotide sequence core element GATA. There are six vertebrate GATA proteins, designated GATA-1 to GATA-6. GATA-3 is a critical regulator of development of various systems in both mouse and human. GATA-3 mouse embryos die between E11 and E12 due to growth retardation and deformities in the brain and spinal cord. The function of GATA-3 has been extensively studied in T cell development and has recently been shown to be a downstream target of Notch in Notch-mediated differentiation of TH2 cells. It is expressed in both hematopoietic and non-hematopoietic tissues, including the kidney, skin, mammary gland, and central nervous system. Decreased expression of GATA-3 in luminal breast cancer is associated with poor clinical outcome. GATA-3 expression level may therefore be a promising prognostic biomarker. Haploinsufficiency of GATA-3 results in Barakat syndrome in humans, a condition characterized by sensorineural deafness and renal dysplasia.

### Product:

Mouse IgG2b kappa. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.

### Molecular Weight:

~ 48 kDa

### Swiss-Prot:

P23771

### Purification&Purity:

This antibody is purified through a protein G column.

### Applications:

WB (1/500 - 1/1000), IHC (1/50 - 1/200), IF/ICC (1/10 - 1/50), FC (1/10 - 1/50)

### Storage&Stability:

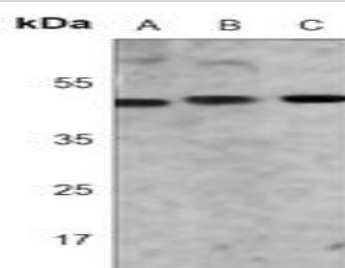
Store at 4 °C short term. Aliquot and store at -20 °C long

term. Avoid freeze-thaw cycles.

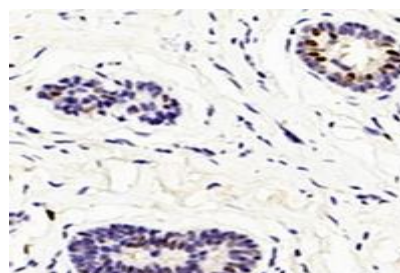
### Specificity:

Recognizes endogenous levels of GATA3 protein.

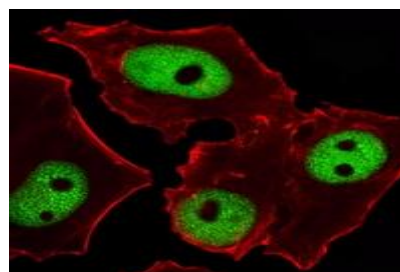
### DATA:



Western blot analysis of GATA3 expression in CEM (A), HL60 (B), SHSY5Y (C) whole cell lysates.



Immunohistochemical analysis of GATA3 staining in human breast formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of GATA3 staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for

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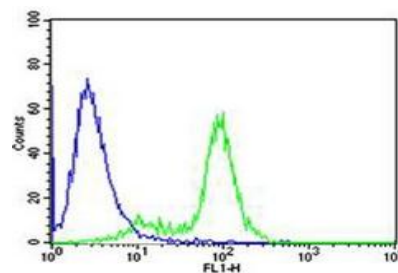
Fax: 0086-025-68035151



## PRODUCT DATA SHEET

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5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF555 was used to stain the cytoplasm (red). DAPI was used to stain the cell nuclei (blue).



### Note:

For research use only, not for use in diagnostic procedure.

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