Anti-GATA3 Antibody [A3G6]

EM1902-23

Product Type:	Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Human
Applications:	WB
Molecular Wt:	Predicted band size 48 kDa.
Clone number:	A3G6

Description: GATA3 is a transcription factor that in humans is encoded by the GATA3 gene. Studies in animal models and humans indicate that it controls the expression of a wide range of biologically and clinically important genes. The GATA3 transcription factor is critical for the embryonic development of various tissues as well as for inflammatory and humoral immune responses and the proper functioning of the endothelium of blood vessels. GATA3 plays central role in allergy and immunity against worm infections. GATA3 haploinsufficiency (i.e. loss of one or the two inherited GATA3 genes) results in a congenital disorder termed the Barakat syndrome. Current clinical and laboratory research is focusing on determining the benefits of directly or indirectly blocking the action of GATA3 in inflammatory and allergic diseases such as asthma. It is also proposed to be a clinically important marker for various types of cancer, particularly those of the breast. However, the role, if any, of GATA3 in the development of these cancers is under study and remains unclear.

Immunogen: Synthetic peptide corresponding to N terminal of Human GATA3.

Positive control: MCF-7 cell lysates.

Subcellular location: Nucleus.

Database links: SwissProt: P23771 Human

Recommended Dilutions:

WB 1:1,000-1:5,000

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4℃. Store at +4℃ short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20℃ long term.

Purity: Protein A affinity purified.

Images

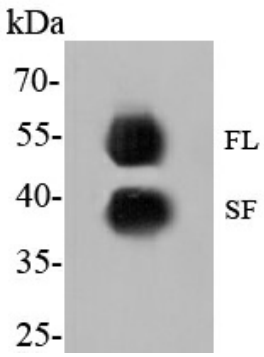

Fig1: Western blot analysis of GATA3 on MCF-7 cell lysate. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (EM1902-23, 1/500) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1:5,000 dilution was used for 1 hour at room temperature.
Specific bands were detected for GATA3 full length (FL) at approximately 52 kDa and the splice form (SF) at approximately 39 kDa (as indicated).

Background References

1. Lin MC et al. GATA3 interacts with and stabilizes HIF-1α to enhance cancer cell invasiveness. Oncogene 36(30):4243-4252 (2017).