Human GATA-3 Antibody

Monoclonal Mouse IgG_{2B} Clone # 634919

Catalog Number: MAB26052

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human GATA-3 in direct ELISAs.
Source	Monoclonal Mouse IgG_{2B} Clone # 634919
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human GATA-3 Pro135-Ser258 Accession # P23771
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

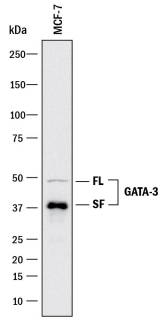
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	2 µg/mL	See Below
Intracellular Staining by Flow Cytometry	0.25 µg/10^6 cells	See Below

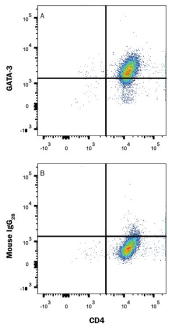
DATA

Western Blot



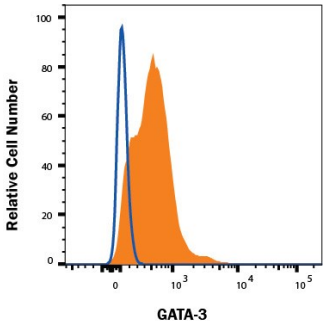
Detection of Human GATA-3 by Western Blot. Western blot shows lysates of MCF-7 human breast cancer cell line. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human GATA-3 Monoclonal Antibody (Catalog # MAB26052) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # Catalog # HAF018). Specific bands were detected for GATA-3 full length (FL) at approximately 50 kDa and the splice form (SF) at approximately 37 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 3.

Intracellular Staining by Flow Cytometry



Detection of GATA-3 in Human PBMCs by Flow Cytometry. Human peripheral blood mononuclear cells (PBMCs) stimulated to induce Th2 cells were stained with Mouse Anti-Human CD4 PE-conjugated Monoclonal Antibody (Catalog # Catalog # FAB3791P) and either (A) Mouse Anti-Human GATA-3 Monoclonal Antibody (Catalog # MAB26052) or (B) Mouse IgG_{2B} Flow Cytometry Isotype Control (Catalog # Catalog # MAB0041) followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # Catalog # F0101B). To facilitate intracellular staining, cells were fixed and permeabilized with FlowX FoxP3 Fixation & Permeabilization Buffer Kit (Catalog # Catalog # FC012). View our protocol for Staining Intracellular Molecules.

Intracellular Staining by Flow Cytometry



Detection of GATA-3 in MCF-7 cells by Flow Cytometry. MCF-7 cells were stained with Mouse Anti-Human GATA-3 Monoclonal Antibody (Catalog # MAB26052, filled histogram) or isotype control antibody (Catalog # MAB004, open histogram), followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). To facilitate intracellular staining, cells were fixed with FC012 and permeabilized with FoxP3 Perm. View our protocol for Staining Intracellular Molecules.

bio-techne
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449

Human GATA-3 Antibody

Monoclonal Mouse IgG_{2B} Clone # 634919
Catalog Number: MAB26052

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

GATA-3 belongs to the GATA family of transcription factors, which bind to the consensus DNA sequence (A/T) GATA (A/G) to control diverse tissue-specific programs of gene expression and morphogenesis. It is widely expressed in mesodermal- and endodermal-derived tissues. GATA-3 has been shown to be an essential regulator for immune cell function, sympathetic neuron development and the maintenance of the differentiated state in epithelial cells.

bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 **Canada** TEL 855 668 8722 **China** TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449