



Biotinylated Anti-human GATA-2 Antibody

ORDERING INFORMATION

Catalog Number: BAF2046

Lot Number: KVVW01

Size: 50 µg

Formulation: 0.2 µm filtered solution in PBS with BSA

Storage: -20° C

Reconstitution: sterile 0.1% BSA in TBS

Specificity: human GATA-2

Immunogen: *E. coli*-derived rhGATA-2

Ig Type: goat IgG

Applications: Western blot
Immunocytochemistry

Preparation

Produced in goats immunized with purified, *E. coli*-derived, recombinant human GATA-2 (rhGATA-2). Human GATA-2 specific IgG was purified by human GATA-2 affinity chromatography and then biotinylated. GATA factors constitute a family of transcriptional regulatory factors that bind to the consensus DNA sequence (A/T) GATA (A/G) to control diverse tissue-specific programs of gene expression and morphogenesis. GATA-1/2/3 are each expressed in the hematopoietic system while GATA 4/5/6 are each expressed in the developing heart and in gastrointestinal and gut-derived tissues.^{1,2}

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg of bovine serum albumin (BSA) per 1 µg of antibody.

Reconstitution

Reconstitute with sterile Tris-buffered saline pH 7.3 (20 mM Trizma base, 150 mM NaCl) containing 0.1% BSA. If 1 mL of buffer is used, the antibody concentration will be 50 µg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody has been selected for use as a detection antibody in human GATA-2 western blots.

Applications

Western Blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human GATA-2. The detection limit for rhGATA-2 is approximately 5 ng/lane under non-reducing and reducing conditions. In this format, this antibody shows less than 1% cross-reactivity with rhGATA-1, rhGATA-5 and rhGATA-6.

Immunocytochemistry - This antibody has been tested on HUVEC, and can be used with the appropriate secondary reagents at the concentration of 25 µg/mL. Cells were fixed with 4% paraformaldehyde in PBS at room temperature for 20 minutes and blocked with PBS containing 0.1% Triton X-100, 10% normal donkey serum, 1% BSA at room temperature for 45 minutes. After blocking, cells were incubated with diluted primary antibody overnight at 4° C followed by Rhodamine Red coupled streptavidin or another appropriate secondary antibody at room temperature in the dark for one hour. Between each step, cells were washed with PBS containing 0.1% BSA.

Optimal dilutions should be determined by each laboratory for each application.