Human GATA-1 PE-conjugated Antibody

Monoclonal Rat IgG_{2B} Clone # 234732

Catalog Number: IC1779P

100 TESTS

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human GATA-1 in direct ELISAs. In Western blots, this antibody does not cross-react with recombinant human (rh) GATA-2 or rhGATA-6.
Source	Monoclonal Rat IgG_{2B} Clone # 234732
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human GATA-1 Met1-Ser413 Accession # P15976
Conjugate	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

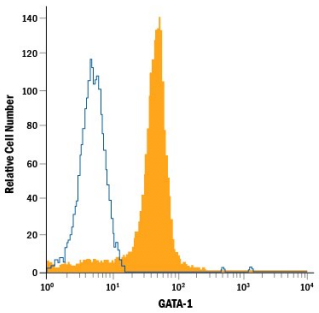
APPLICATIONS

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
Intracellular Staining by Flow Cytometry	10 µL/10^6 cells	See Below

DATA

Intracellular Staining by Flow Cytometry



Detection of GATA-1 in MG-63 Human Cell Line by Flow Cytometry. MG-63 human osteosarcoma cell line was stained with Rat Anti-Human GATA-1 PE-conjugated Monoclonal Antibody (Catalog # IC1779P, filled histogram) or isotype control antibody (Catalog # IC013P, open histogram). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). View our protocol for Staining Intracellular Molecules.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Protect from light. Do not freeze.** ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

GATA-1 is the founding member of 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. GATA-1 is expressed in blood forming cells. It interacts with several additional proteins to activate or repress gene expression and is essential for erythropoiesis (1).

References:

1. Patient, R.K. and J. McGhee (2002) Curr. Opin. Genet. Dev. **12**:416.

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