Human MINA PE-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # 753002

Catalog Number: IC7476P

100 TESTS

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human MINA in direct ELISAs. In direct ELISAs, approximately 50% cross-reactivity with recombinant mouse MINA is observed.
Source	Monoclonal Mouse IgG_1 Clone # 753002
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human MINA Met1-Gly192 Accession # Q8IUF8
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.

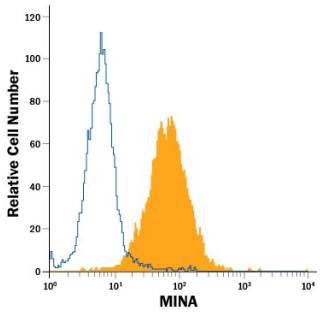
APPLICATIONS

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 MINA in Jurkat Human Cell Line by Flow Cytometry. Jurkat human acute T cell leukemia cell line was stained with Mouse Anti-Human MINA PE-conjugated Monoclonal Antibody (Catalog # IC7476P, filled histogram) or isotype control antibody (Catalog # IC002P, 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

MINA (Myc-induced Nuclear Antigen), also known as Mina53, is a 52-54 kDa member of both the MINA53/NO66 and Jumonji C family of proteins. It expression is associated with proliferating cells, and it has been found in cytoplasm, nucleus and particularly nucleoli. MINA appears to be induced by c-myc, and synthesized by spermatogonia, select epithelium, naïve T cells and select cancer cells. When expressed, MINA is reported to regulate expression of genes such as HGF, EGF-R, IL-4, and Relm β, the latter through the influence of TGF-β. It may exert its regulatory activity through an intrinsic histone demethylase function. Human MINA is 465 amino acids (aa) in length. It possesses one cupin (or enzyme-associated) region (aa 52-364) that contains a JmjC domain (aa 139-271). There are three potential isoform variants that show either a seven aa substitution for aa 255-261, an 18 aa substitution for aa 263-465, or a deletion of Glu297. Over aa 2-192, human MINA shares 82% aa sequence identity with mouse MINA.

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