Human MINA Antibody

Monoclonal Mouse IgG_1 Clone # 753002

Catalog Number: MAB7476

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
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.

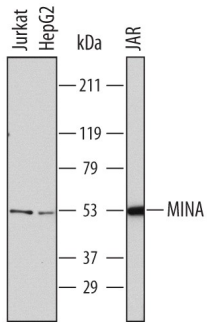
APPLICATIONS

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	2.5 µg/10^6 cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

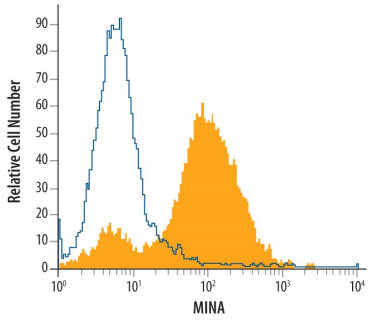
DATA

Western Blot



Detection of Human MINA by Western Blot. Western blot shows lysates of Jurkat human acute T cell leukemia cell line, HepG2 human hepatocellular carcinoma cell line, and JAR human choriocarcinoma cell line. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human MINA Monoclonal Antibody (Catalog # MAB7476) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for MINA at approximately 53 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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 Monoclonal Antibody (Catalog # MAB7476, filled histogram) or isotype control antibody (Catalog # MAB002, open histogram), followed by Phycoerythrin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0102B). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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

MINA (myc-induced nuclear antigen; also 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 nucleoli. MINA appears to be induced by c-myc, and synthesized by spermatogonia, occasional squamous epithelium, naïve T cells and select cancer cells. When expressed, MINA is reported to regulate expression of genes such as HGF, EGF-R and IL-4. It may exert its regulatory activity through an intrinsic demethylase function. Mouse MINA is 465 amino acids (aa) in length. It possesses one cupin (or enzyme-associated) region (aa 51-363) that contains a JmjC domain (aa 139-271). There are two potential isoform variants that contain either a 12 aa substitution for aa 145-465, or a 15 aa substitution for aa 228-465. Over aa 2-192, mouse MINA shares 92% and 82% aa sequence identity with rat and human MINA, respectively.

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