

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human MINA in direct ELISAs. In direct ELISAs, approximately 50% cross-reactivity with recombinant mouse MINA is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 753002
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human MINA Met1-Gly192 Accession # Q8IUF8
<b>Conjugate</b>	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
<b>Formulation</b>	Supplied 0.2 mg/mL 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
<b>Intracellular Staining by Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	Jurkat human acute T cell leukemia cell line fixed with paraformaldehyde and permeabilized with saponin

## PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

## 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. Its 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.

## PRODUCT SPECIFIC NOTICES

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