

#### DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human ERMAP in direct ELISAs.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 767505
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human ERMAP His30-Ala155 Accession # Q96PL5
<b>Conjugate</b>	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	K562 human chronic myelogenous leukemia cell line

#### 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

ERMAP (erythrocyte membrane-associated protein; also Scianna blood group antigen) is a 60-66 kDa member of the BTN/MOG family, Ig-Superfamily of proteins. It is expressed on erythrocytes and erythrocyte precursors, and likely serves as a cell adhesion molecule. Mature human ERMAP is a 446 amino acid (aa) type I transmembrane glycoprotein. It possesses a 126 aa extracellular domain (ECD) (aa 30-155) that contains one V-type Ig-like domain (aa #30-140). Single aa changes at Gly35, Glu47, Gly57, Pro60 and Arg81 generate distinct antigens of the Scianna blood group. There is one alternate start site at Met91 and a splice variant that shows an 11 aa substitution for aa 103-475. Over aa 30-155, human ERMAP shares 56% aa sequence identity with mouse ERMAP. In contrast to human ERMAP ECD, mouse ERMAP ECD contains one extra Ig-like domain.

#### PRODUCT SPECIFIC NOTICES

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