Human ERMAP PE-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # 767505

Catalog Number: FAB49281P
100 TESTS

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ERMAP in direct ELISAs.
Source	Monoclonal Mouse IgG_1 Clone # 767505
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human ERMAP His30-Ala155 Accession # Q96PL5
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.

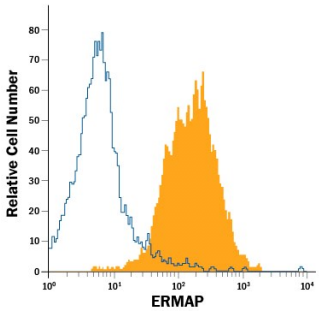
APPLICATIONS

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
Flow Cytometry	10 µL/10^6 cells	See Below

DATA

Flow Cytometry



Detection of ERMAP in K562 Human Cell Line by Flow Cytometry. K562 human chronic myelogenous leukemia cell line was stained with Mouse Anti-Human ERMAP PE-conjugated Monoclonal Antibody (Catalog # FAB49281P, filled histogram) or isotype control antibody (Catalog # IC002P, open histogram). View our protocol for Staining Membrane-associated Proteins.

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

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 the human ERMAP ECD, mouse ERMAP ECD contains one extra Ig-like domain.

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