

DESCRIPTION

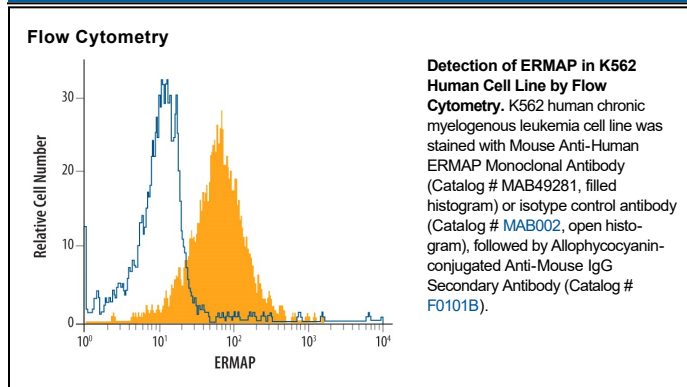
| | |
|---------------------------|---|
| Species Reactivity | Human |
| Specificity | Detects human ERMAP in direct ELISAs. |
| Source | Monoclonal Mouse IgG ₁ Clone # 767505 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | Mouse myeloma cell line NS0-derived recombinant human ERMAP His30-Ala155 Accession # Q96PL5 |
| 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 |
|-----------------------|--|---------------|
| 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



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. <ul style="list-style-type: none"> ● 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

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.