

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ERMAP in direct ELISAS.
Source	Monoclonal Mouse IgG _{2B} Clone # 767504
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	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

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 is 56% aa identical to mouse ERMAP. In contrast to human ERMAP ECD, mouse ERMAP ECD contains one extra Ig-like domain.

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