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ERMAP Rabbit pAb

Catalog # AP97509

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q96PL5
Other Accession	Q96PL5
Predicted	Rat, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	52605
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ERMAP
Epitope Specificity	61-120/475
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the immunoglobulin superfamily. BTN/MOG family. Contains 1 B30.2/SPRY domain. Contains 1 Ig-like V-type (immunoglobulin-like) domain.
Post-translational modifications	Glycosylated.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	ERMAP is a single-pass type one membrane protein that belongs to the immunoglobulin superfamily. Expressed in cord blood, fetal liver and adult bone marrow, ERMAP is thought to function as a cell adhesion molecule in erythroid cells and is responsible for expression of the Scianna/Radin (Sc/Rd) blood group antigen system. The Sc/Rd system is comprised of seven antigens that are present on the surface of red blood cells and have a variety of functions ranging from protein transport to cell adhesion. These seven blood antigens can differ in their expression within a population and may sometimes differ between mother and child. A fetus expressing different blood antigens than its mother may cause the mother to produce antibodies against the fetal blood. This condition is known as hemolytic disease of the newborn (HDN) and is characterized by jaundice, anemia and in some cases, infant death.

Additional Information

Gene ID	114625
Other Names	ERMAP_HUMAN; ERMAP; hERMAP; Radin blood group antigen; Scianna blood group antigen; RD; SC; ERMAP_MOUSE; erythroblast membrane associated protein (Scianna blood group); Radin blood group; Scianna blood group; erythroblast membrane-associated protein; erythroblast membrane-associated protein (RD and SC blood groups); erythroblast membrane-associated protein (Scianna blood group)

Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1ug /Test
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	ERMAP
Synonyms	RD, SC
Function	Possible role as a cell-adhesion or receptor molecule of erythroid cells.
Cellular Location	Cell membrane; Single-pass type I membrane protein. Cytoplasm
Tissue Location	Expressed in erythroid-enriched bone marrow (at protein level). Highly expressed in bone marrow and to a lower extent in leukocytes, thymus, lymph node and spleen

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.