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[Marker Primary Antibody]

Rabbit Anti-CD57/FITC Conjugated antibody

Catalog Number: SL1635R-FITC

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-CD57/FITC
Immunogen:	KLH conjugated synthetic peptide derived from human CD57
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	Flow-Cyt=2ug/Test IF=1:100-500 ICC/IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human(predicted:Mouse,Rat,Chicken)
Subcellular Location:	The cell membrane
Background:	background: CD57 recognizes a (Mr 100-110kDa) oligosaccharide antigenic determinant on myeloid cells and on a variety of polypeptides, lipids and chondroitan sulfate proteoglycans. This surface antigen is associated with myelin-associated glycoprotein (MAG). The CD57 antigen is present on 15-20% of normal peripheral blood mononuclear cells. It is expressed on a subset of natural killer cells (60%) and on a subset of T-lymphocytes. This carbohydrate is also present on N-CAM in the nervous system. **Function:** Involved in the biosynthesis of L2/HNK-1 carbohydrate epitope on glycoproteins. Can also play a role in glycosaminoglycan biosynthesis. Substrates include asialo-orosomucoid (ASOR), asialo-fetuin, and asialo-neural cell adhesion molecule. Requires sphingomyelin for activity: stearoyl-sphingomyelin was the most effective, followed by palmitoyl-sphingomyelin

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	and lignoceroyl-sphingomyelin. Activity was demonstrated only for sphingomyelin with a saturated fatty acid and not for that with an unsaturated fatty acid, regardless of the length of the acyl group. **Subunit:** Homodimer (Potential). **Subcellular Location:** Golgi apparatus membrane; Single-pass type II membrane protein. **Tissue Specificity:** Mainly expressed in the brain. **Similarity:** Belongs to the glycosyltransferase 43 family. **Database links:** **Entrez Gene:** 27087 Human Omim: 151290 Human **SwissProt:** Q9P2W7 Human **Unigene:** 381050 Human Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. CD57It is a 110KD molecular weightglycoprotein,It is a specific surface antigen of Natural killer cells (NK) and killer cells. CD57 is expressed on 15-20% of peripheral blood mononuclear cells, 60% of activated NK cells, and T cell subsets. This antibody can label NK cells and also recognize some cells in non-lymphoid tissues. It can be used for research on NK cell-mediated cytotoxicity, functions of NK cells and T cell subsets, and can also label neuroendocrine cells and their Tumours.