Data Sheet (Cat.No.TMAY-03274)

TargetMol

Anti-CD5 Antibody (2G487)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Mouse
Conjugation:	Unconjugated
Clone:	2G487
Purification:	Protein A

Applications

Verified Activity:	1. Immunofluorescence staining of Mouse CD5 in Mouse Spleen cells. Cells were fixed with 4% PFA, blocked with 10% serum, and incubated with rabbit anti-mouse CD5 monoclonal antibody (1:60) at 37°C 1 hour. Then cells were stained with the Alexa Fluor® 488-conjugated Goat Anti-rabbit IgG secondary antibody (green). Positive staining was localized to cell membrane. 2. Flow cytometric analysis of Mouse CD5 expression on BABL/c splenocytes. Cells were stained with purified anti-Mouse CD5, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.
Application:	FCM,ICC/IF
Recommended	ICC-IF: 1:20-1:100; FCM: 1:25-1:100

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Mouse CD5 / Cluster of Differentiation 5 protein (TMPY-01334)
Antigen Species:	Mouse
Synonyms:	LEU1;T1;CD5 molecule
Biology Area:	ITIM/ITAM Immunoreceptors and Related Molecules

Research Background

The cluster of differentiation (CD) system is commonly used as cell markers in Immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules associating with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion. CD5 is a member of the CD system. CD5 was found to be widely distributed in T-cells and B1 cells which is a subset of IgM-secreting B cells. CD5 also was found expressed in small lymphocytic lymphoma, hairy cell leukaemia and mantle cell lymphoma cells. CD5 serves to weaken the activating stimulus from the BCR so that the B1 cells can only reflect to the very strong stimuli but not the normal tissue proteins.

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