Data Sheet (Cat.No.TMAY-01488)

TargetMol

Anti-CD5 Antibody (4S515)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	4S515
Purification:	Protein A

Applications

Verified Activity:	Anti-CD5 rabbit monoclonal antibody at 1:500 dilution. -Lane A: Jurkat Whole Cell Lysate. -Lane B: HeLa Whole Cell Lysate. -Lane C: 293T Whole Cell Lysate. -Lane D: HuT 78 Whole Cell lysate. -Lysates/proteins at 30 µg per lane. -Secondary -Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. -Developed using the ECL technique. -Performed under reducing conditions. -Predicted band size:55 kDa. -Observed band size:58 kDa
Application:	WB
Recommended	WB: 1:500-1:1000

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: Human CD5 / Cluster of Differentiation 5 Protein (TMPY-01235)
Antigen Species:	Human
Synonyms:	T1;CD5 molecule;LEU1
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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