BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Human CD5 DyLight® 488 conjugated Antibody(monoclonal, 4E2)

Catalog Number: M00480-Dyl488

About CD5

CD5 is a member of the scavenger receptor cysteine-rich (SRCR) superfamily. Members of this family are secreted or membrane-anchored proteins mainly found in cells associated with the immune system. In humans, the gene is located on the long arm of chromosome 11. This protein is a type-I transmembrane glycoprotein found on the surface of thymocytes, T lymphocytes and a subset of B lymphocytes. The encoded protein contains three SRCR domains and may act as a receptor to regulate T-cell proliferation. Alternative splicing results in multiple transcript variants encoding different isoforms.

Overview

Product Name	Anti-Human CD5 DyLight® 488 conjugated Antibody(monoclonal, 4E2)
Reactive Species	Human
Description	Boster Bio Anti-Human CD5 DyLight® 488 conjugated Antibody (monoclonal, 4E2) catalog # M00480-Dyl488. Tested in Flow Cytometry applications. This antibody reacts with Human.
Conjugate	DyLight®488
Application	Flow Cytometry
Clonality	Monoclonal 4E2
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na_2HPO_4, 0.05mg NaN_3.
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Mouse
Uniprot ID	P06127

Technical Details

Immunogen	E. coli-derived human CD5 recombinant protein (Position: R25-L495).
Predicted Reactive Species	Human
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Mouse IgG1
Form	Lyophilized
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Immunogen affinity purified.

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Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Flow Cytometry, 1-3ug/1x10^6 cells, Human

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Anti-Human CD5 DyLight® 488 conjugated Antibody(monoclonal, 4E2) (M00480-Dyl488) Images

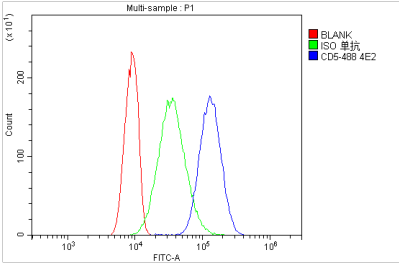

Figure 1. Flow Cytometry analysis of A431 cells using anti-Human CD5 antibody (M00480-Dyl488).
Overlay histogram showing A431 cells stained with M00480-Dyl488 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-Human CD5 Antibody (M00480-Dyl488,1ug/1x10^6 cells) for 30 min at 20°C. Isotype control antibody (Green line) was mouse IgG (1ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

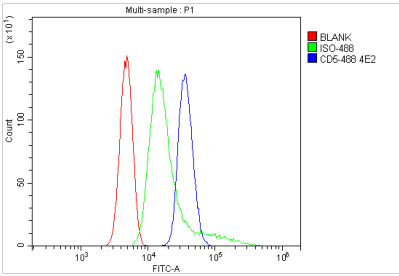

Figure 2. Flow Cytometry analysis of HL-60 cells using anti-Human CD5 antibody (M00480-Dyl488).
Overlay histogram showing HL-60 cells stained with M00480-Dyl488 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-Human CD5 Antibody (M00480-Dyl488,1ug/1x10^6 cells) for 30 min at 20°C. Isotype control antibody (Green line) was mouse IgG (1ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.