

Anti-Hu CD6 Purified Monoclonal Antibody

Catalog Number: M03913-2

About CD6

CD6, also known as T12, is a member of the scavenger receptor superfamily found on T and B cell subsets, thymocytes, and acute lymphocytic leukemia cells (ALL). CD6 interacts with its ligand CD166/ALCAM (activated leukocyte cell adhesion molecule) and serves as a coreceptor for T cell activation and stabilizer of the immunological synapse. CD6-ALCAM mediated cell adhesion is also important for T cell proliferation. CD6 may exert some its functions via association with CD5, probably by fine-tuning CD5 signaling. Ligation of CD6 has antiapoptotic role in chronic lymphocytic leukemia B cells.

Overview

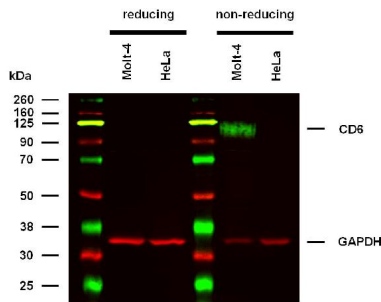
Product Name	Anti-Hu CD6 Purified Monoclonal Antibody
Reactive Species	Human
Description	Boster Bio Anti-Hu CD6 Purified Monoclonal Antibody (Catalog# M03913-2). Tested in Flow Cytometry, IP, WB, IHC-P application(s). This antibody reacts with Human.
Application	Flow Cytometry, IP, IHC-P, WB
Clonality	Monoclonal MEM-98
Formulation	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage Instructions	Store at 2-8°C. Do not freeze.
Host	Mouse
Uniprot ID	P30203

Technical Details

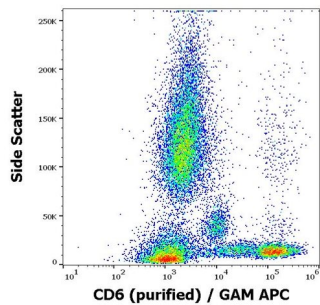
Immunogen	Human CD6 antigen purified by immunoaffinity chromatography from HBP-ALL cells followed by preparative SDS-PAGE of non-boiled non-reduced sample (excised piece of gel corresponding to the 100 kDa zone). The antibody MEM-98 reacts with an extracellular epitope of CD6, a 100-130 kDa single chain transmembrane glycoprotein expressed on T and B lymphocytes subsets, thymocytes, and acute lymphocytic leukemia cells.
Predicted Reactive Species	Primate
Cross Reactivity	This antibody does not cross-react with Thy-1.1 alloantigen.
Isotype	Mouse IgG1
Form	Liquid
Concentration	1 mg/ml

Purification	Purified by protein-A affinity chromatography.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Flow cytometry: Recommended dilution: 2 ug/ml.</p> <p>Immunohistochemistry (paraffin sections): Recommended dilution: 10 ug/ml; positive tissue: spleen.</p> <p>Western blotting: Recommended dilution: 1-2 ug/ml; non-reducing conditions.</p>

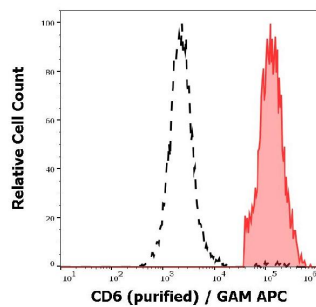
Anti-Hu CD6 Purified Monoclonal Antibody (M03913-2) Images



Anti-Hu CD6 Purified (M03913-2) works in WB application under non-reducing conditions. Western blotting analysis was performed on whole cell extracts (RIPA lysis buffer) of Molt-4 and HeLa cell lines, mixed and heated (100°C, 5 min) with reducing and non-reducing SDS-loading buffer. Samples were resolved using 10% SDS-PAGE gel. Nitrocellulose membrane blot was probed with mouse IgG1 monoclonal antibody M03913-2 (1 µg/ml), followed by IRDye 800CW Goat-anti-Mouse IgG (green). Mouse anti-GAPDH monoclonal antibody conjugated with DyLight 680 (0.1 µg/ml), was used as the loading control (red). Multiplex fluorescent Western blot detection was performed. CD6 molecules were detected at ~100 kDa in Molt-4 cell line under non-reducing conditions.



Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD6 (M03913-2) purified antibody (concentration in sample 2 ug/ml, GAM APC).



Separation of human CD6 positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of peripheral whole blood stained using anti-human CD6 (M03913-2) purified antibody (concentration in sample 2 ug/ml, GAM APC).

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