

Anti-Hu CD53 Purified Monoclonal Antibody

Catalog Number: M06249-1

About CD53

CD53 is a tetraspanin family transmembrane glycoprotein expressed in the lymphoid-myeloid lineage. This molecule has been reported to form complexes with other leukocyte surface proteins such as CD2, CD19, CD21, MHC II, VLA-4 or tetraspanins CD37, CD81 and CD82, thus probably modulating various signaling processes. CD53 is involved in radioresistance of tumour cells and its triggering has anti-apoptotic effect. In thymus, CD53 is up-regulated in response to positive selection signals during T cell development, and is strongly expressed upon macrophage exposure to bacterial lipopolysaccharide, whereas stimulation of neutrophils results in down-regulation of CD53 expression.

Overview

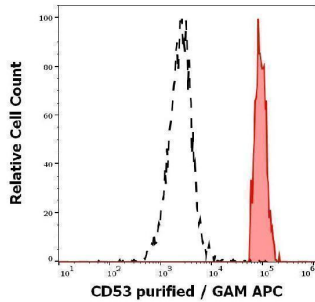
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| Product Name | Anti-Hu CD53 Purified Monoclonal Antibody |
| Reactive Species | Human |
| Description | Boster Bio Anti-Hu CD53 Purified Monoclonal Antibody (Catalog# M06249-1). Tested in Flow Cytometry, IP, WB, IHC-F application(s). This antibody reacts with Human. |
| Application | Flow Cytometry, IP, IHC-F, WB |
| Clonality | Monoclonal MEM-53 |
| 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 | P19397 |

Technical Details

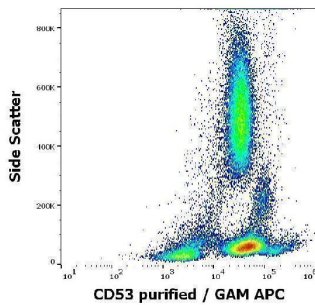
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| Immunogen | Leukocytes of patient suffering from a LGL-type leukemia. The antibody MEM-53 reacts with an extracellular epitope of CD53, a 32-40 kDa tetraspanin family glycoprotein exclusively expressed on leukocytes; it is not present on platelets, red blood cells and non-hematopoietic cells. The antibody MEM-53 reacts also with deglycosylated molecule (molecular weight of the antigen is reduced by 15 kDa using endoglycosidase F). |
| Predicted Reactive Species | Primate |
| Cross Reactivity | Cross-reactivity with CLIC5b was not determined. |
| Isotype | Mouse IgG1 |
| Form | Liquid |
| Concentration | 1 mg/ml |

| | |
|---------------------|---|
| Purification | Purified by protein-A affinity chromatography. |
| Suggested Dilutions | Immunohistochemistry (frozen sections): It is suitable for discrimination of lymphomas from other tumors. Flow cytometry: 1-5 ug/ml. |

Anti-Hu CD53 Purified Monoclonal Antibody (M06249-1) Images



Separation of human monocytes (red-filled) from human CD53 negative blood debris (black-dashed) in flow cytometry analysis (surface staining) of human peripheral blood stained using anti-human CD53 (MEM-53) purified antibody (concentration in sample 3 µg/ml, GAM APC).



Flow cytometry surface staining pattern of human peripheral blood stained using anti-human CD53 (MEM-53) purified antibody (concentration in sample 3 µg/ml, GAM APC).

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Anti-Hu CD53 Purified Monoclonal Antibody

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