

Anti-Hu CD170 Purified SIGLEC5 Monoclonal Antibody

Catalog Number: M06510

About SIGLEC5

CD170, also known as Siglec 5 (sialic acid binding Ig-like lectin 5) is a type 1 transmembrane glycoprotein containing two cytoplasmic immunoreceptor tyrosine inhibitory motifs (ITIMs). CD170 forms homodimers and functions as an inhibitory receptor able to downregulate cell activation. It binds to alpha2,3- and alpha2,6-linked sialic acid ligands, e.g. on glycophorin A (CD235a). Aberrant expression of CD170 by CD34+ progenitor cells can be observed in case of acute myeloid leukemias.

Overview

Product Name	Anti-Hu CD170 Purified SIGLEC5 Monoclonal Antibody
Reactive Species	Human, Primate
Description	Boster Bio Anti-Hu CD170 Purified SIGLEC5 Monoclonal Antibody (Catalog# M06510). Tested in Flow Cytometry, IP, IHC-F, ICC, ELISA application(s). This antibody reacts with Primate, Human.
Application	ELISA, Flow Cytometry, IP, IHC-F, ICC
Clonality	Monoclonal 1A5
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	O15389

Technical Details

Immunogen	Fusion protein composed of human CD170 extracellular domain and Fc region of human IgG1. The mouse monoclonal antibody 1A5 recognizes an extracellular epitope of CD170 (Siglec-5, sialic acid binding Ig-like lectin 5), a transmembrane glycoprotein expressed strongly by neutrophils, macrophages activated during infections, monocytes, and dendritic cells.
Predicted Reactive Species	Primate
Cross Reactivity	As in case with other anti-CD170 antibodies, this antibody cross-reacts with Siglec-14, whose first two Ig domains are almost identical to those of CD170.
Isotype	Mouse IgG1
Form	Liquid
Concentration	1 mg/ml
Purification	Purified by protein-A affinity chromatography.

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: 1-4 ug/ml.

Immunohistochemistry: 5-10 ug/ml.

Anti-Hu CD170 Purified SIGLEC5 Monoclonal Antibody (M06510) Images

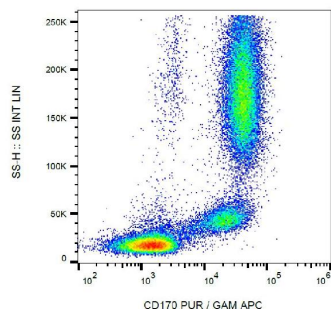


Figure 1. Flow Cytometry validation of SIGLEC5 using Anti-Hu CD170 Purified SIGLEC5 Monoclonal Antibody (M06510).

Flow cytometry (surface staining) of human peripheral blood cells using anti-CD170 (1A5) purified

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