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30-2910: Anti-Hu CD170 APC Mab (1A5)

Clonality :	Monoclonal
Clone Name :	1A5
Application :	FACS
Reactivity :	Human,Non-Human Primates
Conjugate :	APC
Gene :	SIGLEC5
Gene ID :	8778
Uniprot ID :	O15389
Alternative Name :	OBBP2, OB-BP2, SIGLEC-5, SIGLEC5
Isotype :	Mouse IgG1
Immunogen Information :	Fusion protein composed of human CD170 extracellular domain and Fc region of human IgG1

Description

Specificity: 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. As in case with other anti-CD170 antibodies, this antibody crossreacts with Siglec-14, whose first two Ig domains are almost identical to those of CD170.

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.

Product Info

Amount :	100 Tests
Purification :	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Content :	Storage Buffer: Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

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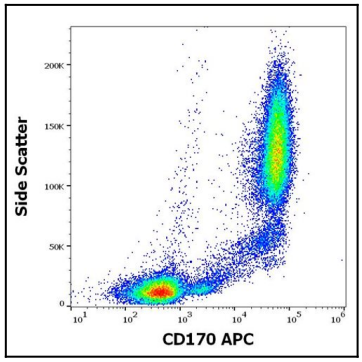

Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD170 (1A5) APC antibody (10 Î¼l reagent / 100 Î¼l of peripheral whole blood).

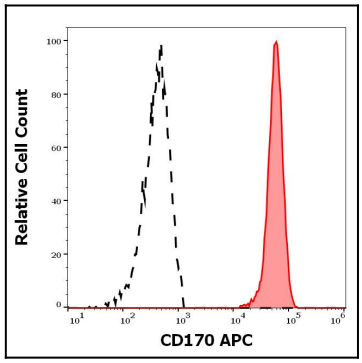

Figure 2: Separation of human neutrophil granulocytes (red-filled) from CD170 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD170 (1A5) APC antibody (10 Î¼l reagent / 100 Î¼l of peripheral whole blood).