

CD170 Antibody | anti-CD170 antibody

Anti-Hu CD170 APC

CATALOG # AAA129294	REACTIVITY Non-human primates, Human	APPLICATIONS Flow Cytometry, Functional Assay
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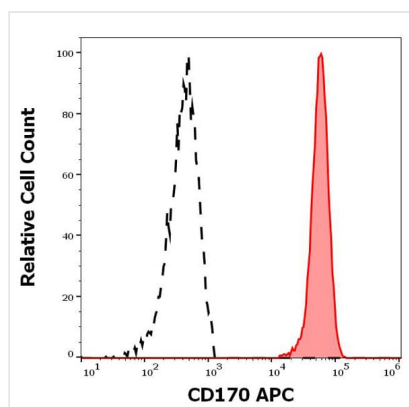
PRODUCT SYNONYMS

CD170; Anti-Hu CD170 APC; sialic acid binding Ig like lectin 5; OBBP2; OB-BP2; SIGLEC-5; SIGLEC5; anti-CD170 antibody

PRODUCT SPECIFICATIONS

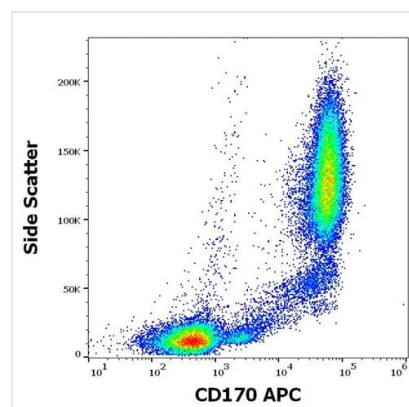
Reactivity	Non-human primates, Human
Isotype	Mouse IgG1
Clone Number	1A5
Specificity	The mouse monoclonal antibody 1A5 recognizes an extracellular epitope of CD170 (Siglec-5, sialic acid binding Ig-like lectin 5), a transmembrane glycoprotein expressed strongly by neutrophils, macrophages activated during 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.
Form/Format	APC Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography. Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 m
Applicable Applications for anti-CD170 antibody	FCM/FACS (Flow Cytometry)
Immunogen	Fusion protein composed of human CD170 extracellular domain and Fc region of human IgG1
Preparation and Storage	Store at 2-8 degree C. Protect from prolonged exposure to light. Do not freeze.

IMAGES



FCM/FACS (Flow Cytometry)

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 ?l reagent / 100 ?l of peripheral whole blood).



FCM/FACS (Flow Cytometry)

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

ADDITIONAL INFORMATION

Related Product Information for anti-CD170 antibody	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.
References	*Avril T, Freeman SD, Attrill H, Clarke RG, Crocker PR: Siglec-5 (CD170) can mediate inhibitory signaling in the absence of immunoreceptor tyrosine-based inhibitory motif phosphorylation. J Biol Chem. 2005 May 20;280(20):19843-51., URL: http://www.ncbi.nlm.nih.gov/pubmed/?term=avril+t+freeman+sd ,*Yokoi H, Myers A, Matsumoto K, Crocker PR, Saito H, Bochner BS: Alteration and acquisition of Siglecs during in vitro maturation of CD34+ progenitors into human mast cells. Allergy. 2006 Jun;61(6):769-76., URL: http://www.ncbi.nlm.nih.gov/pubmed/?term=yokoi+h+myers+a ,*Angata T, Hayakawa T, Yamanaka M, Varki A, Nakamura M: Discovery of Siglec-14, a novel sialic acid receptor undergoing concerted evolution with Siglec-5 in primates. FASEB J. 2006 Oct;20(12):1964-73., URL: http://www.ncbi.nlm.nih.gov/pubmed/17012248 ,*Schuster P, Donhauser N, Pritschet K, Ries M, Haupt S, Kittan NA, Korn K, Schmidt B: Co-ordinated regulation of plasmacytoid dendritic cell surface receptors upon stimulation with herpes simplex virus type 1. Immunology. 2010 Feb;129(2):234-47., URL: http://www.ncbi.nlm.nih.gov/pubmed/19824924 ,

NCBI AND UNIPROT INFORMATION

NCBI GI #	25009254
NCBI GeneID	8778
UniProt Accession #	O15389
Molecular Weight	60,715 Da
NCBI Official Full Name	Sialic acid-binding Ig-like lectin 5
NCBI Official Synonym Full Names	sialic acid binding Ig like lectin 5
NCBI Official Symbol	SIGLEC5
NCBI Official Synonym Symbols	CD170; OBBP2; CD33L2; OB-BP2; SIGLEC-5
NCBI Protein Information	sialic acid-binding Ig-like lectin 5
UniProt Protein Name	Sialic acid-binding Ig-like lectin 5
UniProt Gene Name	SIGLEC5
UniProt Synonym Gene Names	CD33L2; OBBP2; Siglec-5; OB-BP2; OB-binding protein 2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.