

Mouse anti-Human CD15 Antibody | anti-CD15 antibody

Anti-Hu CD15 APC

CATALOG # AAA129374	HOST Mouse	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
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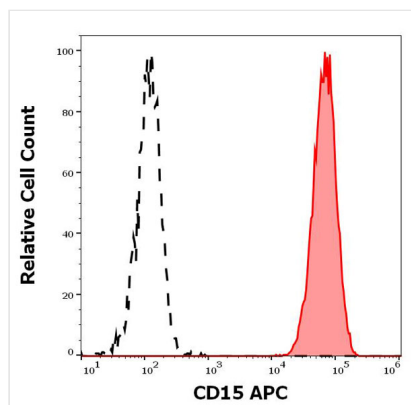
PRODUCT SYNONYMS

CD15; Anti-Hu CD15 APC; Lewis x Blood Group antigen; Le(x); SSEA-1; 3-fucosyl-N-acetyllactosamine; anti-CD15 antibody

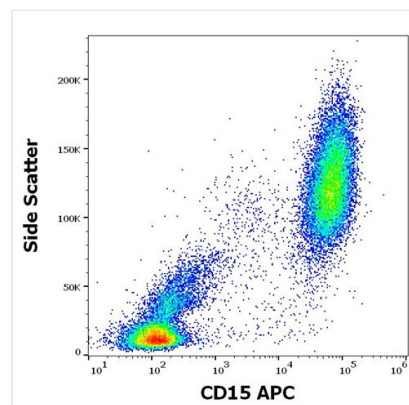
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Isotype	Mouse IgG1 kappa
Clone Number	W6D3
Specificity	Mouse monoclonal antibody W6D3 recognizes CD15 in nonterminal position on extracellular glycoproteins. CD15 (a cell membrane 3-fucosyl-N-acetyllactosamine; 3-FAL) is strongly expressed on granulocytes, monocytes, macrophages, mast cells; it is also present on Langerhans cells and some myeloid precursors cells. This is a non-IgM anti-CD15 antibody.
Purity/Purification	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Form/Format	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Applicable Applications for anti-CD15 antibody	FCM/FACS (Flow Cytometry)
Immunogen	WERI-RB-1 retinoblastoma cell line
Conjugation	APC
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 lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD15 (W6D3) APC antibody (10ul reagent/100ul of peripheral whole blood).


FCM/FACS (Flow Cytometry)

Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD15 (W6D3) APC antibody (10ul reagent/100ul of peripheral whole blood).

ADDITIONAL INFORMATION

Related Product Information for anti-CD15 antibody	CD15 (Lewis x), also known as stage specific embryonic antigen-1 (SSEA-1) is a trisaccharide determinant (3-fucosyl-N-acetylglucosamine) expressed on several glycolipids, glycoproteins and proteoglycans of various cell types, e.g. granulocytes, mast cells, monocytes, macrophages, cells of gastric mucosa, nervous system or various tumour cells. There are several structural relatives of Lewis x, e.g. sialyl-Lewis x or sulphated Lewis x. Cells with high surface expression of Le(x) antigen exhibit strong self-aggregation, based on calcium-dependent Le(x)-Le(x) interaction. This process is involved for example in embryo compaction or in autoaggregation of teratocarcinoma cells. Sialyl-Le(x) and its isomer sialyl-Le(a) are ligands of selectins. CD15 expression has been extensively used to confirm identification of Hodgkin's disease.
References	*Benharroch D, Dima E, Levy A, Ohana-Malka O, Ariad S, Prinsloo I, Mejirovsky E, Sacks M, Gopas J: Differential expression of sialyl and non-sialyl-CD15 antigens on Hodgkin-Reed-Sternberg cells: significance in Hodgkin's disease. <i>Leuk Lymphoma</i>. 2000 Sep;39(1-2):185-94., URL: https://pubmed.ncbi.nlm.nih.gov/10975398/,*Hakomori S: Le(X) and related structures as adhesion molecules. <i>Histochem J</i>. 1992 Nov;24(11):771-6., URL: https://pubmed.ncbi.nlm.nih.gov/1362193/,*Li C, Wong P, Pan T, Xiao F, Yin S, Chang B, Kang SC, Ironside J, Sy MS: Normal cellular prion protein is a ligand of selectins: binding requires Le(X) but is inhibited by sLe(X). <i>Biochem J</i>. 2007 Sep 1;406(2):333-41., URL: https://pubmed.ncbi.nlm.nih.gov/17497959/,*Mandalasi M, Dorabawila N, Smith DF, Heimbürg-Molinaro J, Cummings RD, Nyame AK: Development and characterization of a specific IgG monoclonal antibody toward the Lewis x antigen using splenocytes of <i>Schistosoma mansoni</i>-infected mice. <i>Glycobiology</i>. 2013 Jul;23(7):877-92., URL: https://www.ncbi.nlm.nih.gov/pubmed/23542315,*Sutherland DR, Ortiz F, Quest G, Illingworth A, Benko M, Nayyar R, Marinov I: High-sensitivity 5-, 6-, and 7-color PNH WBC assays for both Canto II and Navios platforms. <i>Cytometry B Clin Cytom</i>. 2018 Jul;94(4):637-651., URL: https://www.ncbi.nlm.nih.gov/pubmed/29381839,*Brazil JC, Sumagin R, Cummings RD, Louis NA: Targeting of neutrophil Lewis X blocks transepithelial migration and increases phagocytosis and degranulation. <i>Am J Pathol</i>. 2016 Feb;186(2):297-311., URL: https://pubmed.ncbi.nlm.nih.gov/26687991/,*Carrel J, Groves CJ: OMIP-043: Identification of human antibody secreting cell subsets. <i>Cytometry A</i>. 2018 Feb;93(2):190-193., URL: https://pubmed.ncbi.nlm.nih.gov/29286577/,

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 Online datasheet: <https://stage.aaabiotech.com/mouse-human-antibody/cd15/129374>