

## Mouse anti-Human CD15 Antibody | anti-CD15 antibody

Anti-Hu CD15 PE-Cy7

| CATALOG # | HOST  | REACTIVITY | APPLICATIONS                     |
|-----------|-------|------------|----------------------------------|
| AAA129376 | Mouse | Human      | Flow Cytometry, Functional Assay |

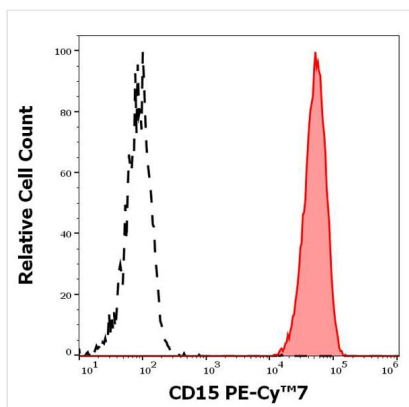
### PRODUCT SYNONYMS

CD15; Anti-Hu CD15 PE-Cy7; Lewis x Blood Group antigen; Le(x); SSEA-1; 3-fucosyl-N-acetylglucosamine; anti-CD15 antibody

### PRODUCT SPECIFICATIONS

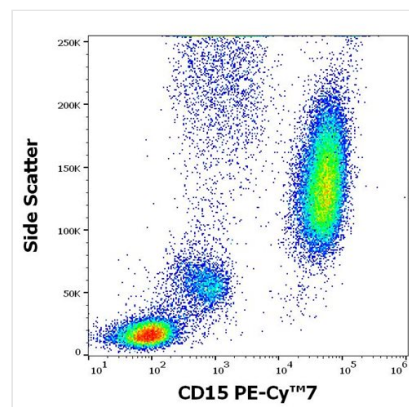
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|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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-acetylglucosamine; 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 tandem dye of R-phycoerythrin-cyanine 7 (PE-Cy7) 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                                    | PE-Cy7                                                                                                                                                                                                                                                                                                                                                        |
| 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) PE-Cy7 antibody (4ul 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) PE-Cy7 antibody (4ul reagent/100ul of peripheral whole blood).

ADDITIONAL INFORMATION

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|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                         | <p>*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: <a href="https://pubmed.ncbi.nlm.nih.gov/10975398/">https://pubmed.ncbi.nlm.nih.gov/10975398/</a>,*Hakomori S: Le(X) and related structures as adhesion molecules. <i>Histochem J</i>. 1992 Nov;24(11):771-6., URL: <a href="https://pubmed.ncbi.nlm.nih.gov/1362193/">https://pubmed.ncbi.nlm.nih.gov/1362193/</a>,*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: <a href="https://pubmed.ncbi.nlm.nih.gov/17497959/">https://pubmed.ncbi.nlm.nih.gov/17497959/</a>,</p> <p>*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: <a href="https://www.ncbi.nlm.nih.gov/pubmed/23542315">https://www.ncbi.nlm.nih.gov/pubmed/23542315</a>,*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: <a href="https://www.ncbi.nlm.nih.gov/pubmed/29381839">https://www.ncbi.nlm.nih.gov/pubmed/29381839</a>,*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: <a href="https://pubmed.ncbi.nlm.nih.gov/26687991/">https://pubmed.ncbi.nlm.nih.gov/26687991/</a>,*Carrel J, Groves CJ: OMIP-043: Identification of human antibody secreting cell subsets. <i>Cytometry A</i>. 2018 Feb;93(2):190-193., URL: <a href="https://pubmed.ncbi.nlm.nih.gov/29286577/">https://pubmed.ncbi.nlm.nih.gov/29286577/</a>,</p> |

**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.

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Online datasheet: <https://stage.aaabiotech.com/mouse-human-antibody/cd15/129376>