

PE/Cyanine7 anti-human CD15 (SSEA-1) Antibody

Catalog# / Size	301923 / 25 tests 301924 / 100 tests
Clone	HI98
Regulatory Status	RUO
Workshop	IV M141
Other Names	Lewis X, 3-FAL, 3-FL, LNFP III, Lex, SSEA-1, X-hapten
Isotype	Mouse IgM, κ
Description	CD15 is 3-fucosyl-N-acetylactosamine (3-FAL), also known as Lewis X, 3-FAL, X-hapten, and SSEA-1. CD15 is expressed on granulocytes and monocytes. It has also been shown to be expressed on Langerhans cells and some malignant cells. CD15 has been implicated in adhesion, as well as chemotaxis, phagocytosis, and bactericidal activity.

Product Details

Verified Reactivity	Human
Reported Reactivity	Chimpanzee
Antibody Type	Monoclonal
Host Species	Mouse
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	Clone HI98 has been described to specifically react with 3-fucosyl-N-acetylactosamine (3-FAL), also called X-hapten, SSEA-1, CD15, or Lewis X. Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen sections ⁵ and formalin-fixed paraffin-embedded tissue sections.
Additional Product Notes	BioLegend is in the process of converting the name PE/Cy7 to PE/Cyanine7. The dye molecule remains the same, so you should expect the same quality and performance from our PE/Cyanine7 products. Please contact Technical Service if you have any questions.
Application References	<ol style="list-style-type: none"> Knapp W, <i>et al.</i> Eds. 1989. Leucocyte Typing IV. Oxford University Press. New York. Schlossman S, <i>et al.</i> Eds. 1995. Leucocyte Typing V. Oxford University Press. New York. McMichael A, <i>et al.</i> 1987. Leucocyte Typing III. Oxford University Press. New York. Yoshino N, <i>et al.</i> 2000. <i>Exp. Anim. (Tokyo)</i> 49:97. (FC) van Baarsen LG, <i>et al.</i> 2014. <i>Arthritis Res. Ther.</i> 16:426. (IHC)

Product Citations

1. Alshetaiwi H, *et al.* 2020. Sci Immunol. 5:00. [PubMed](#)
2. Hubbard JJ, *et al.* 2020. J Exp Med. :217. [PubMed](#)
3. Thompson EA, *et al.* 2021. Cell Rep. 108863:34. [PubMed](#)
4. Ruan LY, *et al.* 2022. Biomolecules. 12:. [PubMed](#)

RRID AB_2783154 (BioLegend Cat. No. 301923)
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Antigen Details

Structure	Poly-N-acetyllactosamine
Distribution	Neutrophils, eosinophils, monocytes
Function	Adhesion
Cell Type	Embryonic Stem Cells, Eosinophils, Monocytes, Neural Stem Cells, Neutrophils
Biology Area	Cell Biology, Immunology, Innate Immunity, Neuroscience, Neuroscience Cell Markers, Stem Cells
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	1. Stocks SC, <i>et al.</i> 1990. <i>Biochem. J.</i> 268:275.
Gene ID	2526

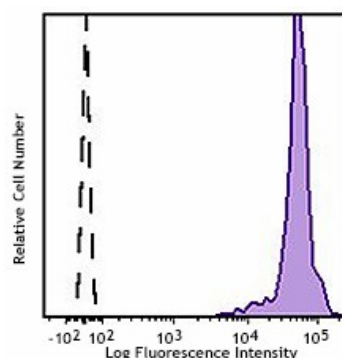
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

APC anti-human CD15 (SSEA-1), FITC anti-human CD15 (SSEA-1), PE anti-human CD15 (SSEA-1), Purified anti-human CD15 (SSEA-1), Alexa Fluor® 488 anti-human CD15 (SSEA-1), Alexa Fluor® 594 anti-human CD15 (SSEA-1), Biotin anti-human CD15 (SSEA-1), Alexa Fluor® 700 anti-human CD15 (SSEA-1), PE/Cyanine7 anti-human CD15 (SSEA-1), PerCP/Cyanine5.5 anti-human CD15 (SSEA-1), Spark Violet™ 423 anti-human CD15 (SSEA-1), Spark Violet™ 538 anti-human CD15 (SSEA-1)

Product Data



Human peripheral blood granulocytes were stained with CD15 (SSEA-1) PE/Cyanine7 (Clone HI98) (filled histogram) or Mouse IgM, ? isotype control PE/Cyanine7 (open histogram).

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