

Purified anti-human CD15 (SSEA-1) Antibody

Catalog# / Size	301902 / 100 µg
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-acetyllactosamine (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.
Preparation	The antibody was purified by affinity chromatography.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	FC - Quality tested IHC-P - Verified IHC-F - Reported in the literature, not verified in house
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 ≤ 0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes	Clone HI98 has been described to specifically react with 3-fucosyl-N-acetyllactosamine (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.
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)
(PubMed link indicates BioLegend citation)	
Product Citations	<ol style="list-style-type: none"> Tornack J, <i>et al.</i> 2017. <i>PLoS One.</i> 12:e0169119. PubMed de Vargas Roditi L, <i>et al.</i> 2022. <i>Cell Rep Med.</i> 3:100604. PubMed Wagner J <i>et al.</i> 2019. <i>Cell.</i> 177(5):1330-1345. PubMed Antonelou M, <i>et al.</i> 2020. <i>J Am Soc Nephrol.</i> 31:350. PubMed Kunimoto H, <i>et al.</i> 2018. <i>Cancer Cell.</i> 33:44. PubMed Eldredge LC, <i>et al.</i> 2019. <i>Am J Physiol Lung Cell Mol Physiol.</i> 317:L49. PubMed Agrawal N, <i>et al.</i> 2018. <i>Front Immunol.</i> 2.053472222. PubMed Xie S, <i>et al.</i> 2020. <i>Ann Transl Med.</i> 1.384027778. PubMed Schwabenland M, <i>et al.</i> 2021. <i>Immunity.</i> . PubMed

10. Evrard M *et al.* 2018. *Immunity*. 48(2):364-379 . [PubMed](#)
11. Kennedy-Darling J, *et al.* 2021. *Eur J Immunol*. 51:1262. [PubMed](#)
12. Chevrier S, *et al.* 2021. *Cell Reports Medicine*. 2(1):100166. [PubMed](#)
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14. Sander J *et al.* 2017. *Immunity*. 47(6):1051-1066 . [PubMed](#)
15. Chevrier S, *et al.* 2018. *Cell Syst*. 0.675. [PubMed](#)

RRID AB_314194 (BioLegend Cat. No. 301902)

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

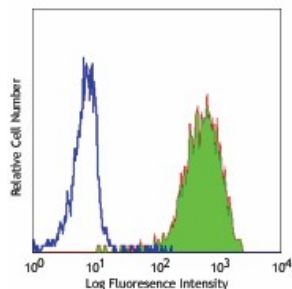
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

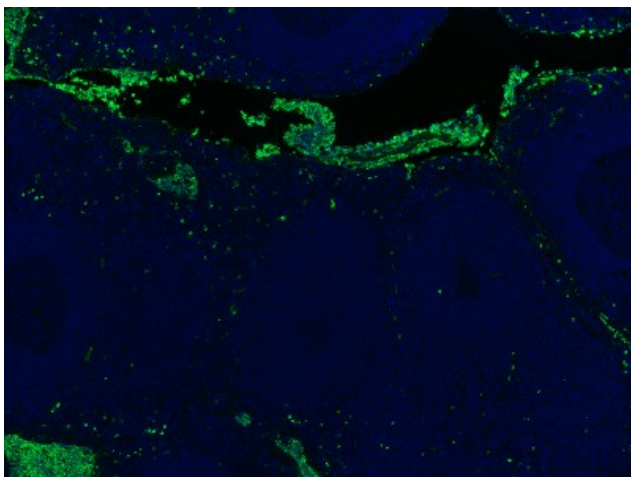
Other Formats

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 stained with purified HI98, followed by anti-mouse IgGs FITC



Formalin-fixed paraffin-embedded human tonsil treated with a citrate buffer pH6 and heat for antigen retrieval was stained with purified CD15 clone HI98, conjugated and detected with a Cy5 conjugated CODEX™ oligonucleotide duplex (green). Data generated at Akoya Biosciences, Inc. using the CODEX™ technology.

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BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587