Technical Data Sheet

V500 Mouse Anti-Human CD15

Product Information

Material Number: 561585

Alternate Name: Lewis X; Le-X; X-Hapten; SSEA-1; 3-FAL

Reactivity: QC Testing: Human

Workshop: IV M141

Storage Buffer: Aqueous buffered solution containing protein stabilizer, glycerol and ≤0.09%

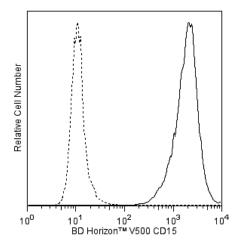
sodium azide.

Description

The HI98 monoclonal antibody specifically reacts with 3-fucosyl-N-acetyllactosamine (3-FAL), a 220 kDa carbohydrate structure, also called X-hapten, SSEA-1, CD15 or Lewis X. This structure is found on a variety of cell surface glycolipids and glycoproteins. 3-FAL is expressed on >95% of granulocytes, including neutrophils and eosinophils, and to a varying degree on monocytes, but not on lymphocytes or basophils. CD15 plays a role in mediating phagocytosis, bactericidal activity and chemotaxis. This antibody is also suitable for staining formalin-fixed, paraffin-embedded tissue sections without pretreatment. Since the Abs are recognizing a carbohydrate epitope (3-fucosyl-N-acetyllactosamine) they also should work across species and not only for human.

The antibody is conjugated to BD HorizonTM V500, which has been developed for use in multicolor flow cytometry experiments and is available exclusively from BD Biosciences. It is excited by the Violet laser with an Ex max of 415 nm and Em Max at 500 nm. BD Horizon V500 conjugates emit at a similar wavelength to Amcyan yet exhibit reduced spillover into the FITC channel. For more information on BD Horizon V500, visit bdbiosciences.com/colors.

When compensating dyes in this spectral range (such as Horizon™ V500 and AmCyan), the most accurate compensation can be obtained using single stained cellular controls. Due to spectral differences between cells and beads in this channel, using BD CompBeads can result in spillover errors for V500 and AmCyan reagents. Therefore, the use of BD CompBeads or BD CompBeads Plus to determine spillover values for these reagents is not recommended. Different V500 reagents (e.g. CD4 vs. CD45) can have slightly different fluorescence spillover therefore, it may also be necessary to use clone specific compensation controls when using these reagents.



Flow cytometric analysis of CD15 expression on human peripheral blood granulocytes. Whole blood was stained with BD Horizon™ V500 Mouse Anti-Human CD15 antibody (Cat. No. 561585; solid line histogram) or with a BD Horizon™ V500 Mouse IgM, κ Isotype Control (Cat. No. 561574; dashed line histogram). The erythrocytes were lysed with BD PharmLyse™ Lysing Buffer (Cat. No. 555899). The fluorescence histograms were derived from events with the forward and side light-scatter characteristics of viable granulocytes. Flow cytometry was performed using a BD™ LSR II Flow Cytometer System.

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Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with BD Horizon™ V500 under optimum conditions, and unreacted BD Horizon™ V500 was removed.

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Suggested Companion Products

Catalog Number	Name	Size	Clone
561574	V500 Mouse IgM, κ Isotype Control	0.1 mg	G155-228
555899	Lysing Buffer	100 ml	(none)
554656	Stain Buffer (FBS)	500 ml	(none)

Product Notices

- 1. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
- 2. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1 × 10⁶ cells in a 100-μl experimental sample (a test).
- 3. An isotype control should be used at the same concentration as the antibody of interest.
- 4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
- 5. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.
- 6. BD HorizonTM V500 has a maximum absorption of 415 nm and maximum emission of 500 nm. Before staining with this reagent, please confirm that your flow cytometer is capable of exciting the fluorochrome and discriminating the resulting fluorescence.

References

Barclay NA, Brown MH, Birkeland ML, et al, ed. *The Leukocyte Antigen FactsBook*. San Diego, CA: Academic Press; 1997. (Biology)

Knapp W, Dorken B, Rieber EP, et al, ed. *Leucocyte Typing IV*. New York: Oxford University Press; 1989:1-1208. (Biology)

Lund-Johansen F, Olweus J, Horejsi V, et al. Activation of human phagocytes through carbohydrate antigens (CD15, sialyl-CD15, CDw17, and CDw65). *J Immunol*. 1992; 148(10):3221-3229. (Biology)

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