SONY

Product Data Sheet

Brilliant Violet 421™ anti-mouse CD135

Catalog # / Size: 1276565 / 125 µl
1276570 / 500 µl
1276575 / 50 µg

Clone: A2F10

Isotype: Rat IgG2a, κ

Immunogen: Mouse Flt3 transfected cell line

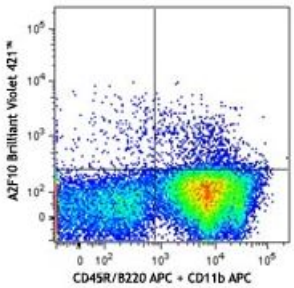
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

Workshop Number: VII 70312

Concentration: Lot-specific



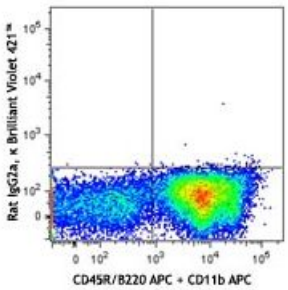
C57 BL/6 bone marrow cells stained with CD45R/B220 APC+ CD11b APC and CD135 (clone A2F10) Brilliant Violet 421™ (top) or rat IgG2a, κBrilliant Violet 421™ isotype control (bottom).

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining using the test sizes, the suggested use of this reagent is ≤5 µl per million cells or 5 µl per 100 µl of whole blood. For flow cytometric staining using the µg size, the suggested use of the 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.

Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd.



Application References:

1. Sergejeva S, *et al.* 2004. *Blood* 103:1270.
2. Auffray C, *et al.* 2009. *J. Exp. Med.* 206:595.
3. Esplin BL, *et al.* 2011. *J. Immunol.* 186:5367. PubMed

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products.

Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com

Description: CD135, also known as Flk-2, Flt3, and Ly-72, is a type III tyrosine kinase receptor. It is expressed on early B lymphoid lineage cells in bone marrow and on primitive myeloid progenitors within the BM CD34+ cell population. Ligation of Flk-2 with Flt3 ligand regulates the growth of hematopoietic stem cells and promotes the survival of primitive hematopoietic progenitor cells with myeloid as well as B lymphoid potential. It was reported that the receptor tyrosine kinase Flt3 is required for dendritic cell development. Combined signaling through interleukin-7 receptors and Flt3 selectively promotes B-cell commitment and differentiation from uncommitted murine bone marrow progenitor cells.

Antigen References:

1. Waskow C, *et al. Nat. Immunol.* 9:676.
2. Veiby OP, *et al.* 1996. *Blood* 88:1256.
3. Veiby OP, *et al.* 1996. *J. Immunol.* 157:2953.
4. Mattews W, *et al.* 1991. *Cell.* 65:1143.
5. Hannum C, *et al.* 1994. *Nature* 368:643.
6. Ogawa M, *et al.* 1998. *Exp Hematol.* 26:478.

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products.