Brilliant Violet 421™ anti-mouse CD117 (c-Kit)

Catalog # / Size: 1129135 / 125 µl

1129140 / 500 µl

Clone:

Isotype: Rat IgG2b, ĸ

Immunogen: Mouse bone marrow mast cells

Reactivity: Mouse

Preparation: The antibody was purified by affinity

chromatography and conjugated with Brilliant Violet 421™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 421™ and

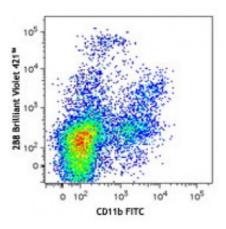
unconjugated antibody.

Phosphate-buffered solution, pH 7.2, Formulation:

containing 0.09% sodium azide and BSA

(origin USA).

Concentration: Lot-specific



C57BL/6 mouse bone marrow cells were stained with CD11b FITC and CD117 (clone 2B8) Brilliant Violet 421[™] (top) or rat IgG2b, κ Brilliant Violet 421[™] isotype control (bottom). Data shown was gated on lymphoid cell population.

Applications:

Applications: Flow Cytometry

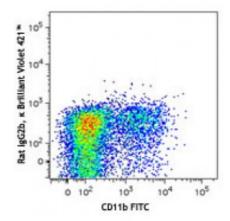
Recommended

Usage:

Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤5 microL per million cells or 5 microL per 100 microL of whole blood. 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.

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applications and foreign equivalents.

Application Notes:

Additional reported applications (for the

relevant formats) include: immunoprecipitation1 and

immunohistochemistry of acetone fixed frozen sections2. The 2B8 antibody does

not block c-Kit activity.

Application References:

1. Ikuta K, et al. 1992. P. Natl. Acad. Sci. USA 89:1502. (FC)

2. Podd BS, et al. 2006. J. Immunol. 176:6532. PubMed (IHC)

3. Bachelet I, et al. 2008. J. Immunol. 180:6064. PubMed (FC)

4. Charles N, et al. 2010. Nat. Med. 16:701. PubMed (FC)

Description:

CD117 is a 145 kD immunoglobulin superfamily member also known as c-Kit and stem cell factor receptor (SCFR). It is a transmembrane tyrosine-kinase receptor that binds the c-Kit ligand (also known as steel factor, stem cell factor, and mast cell growth factor). CD117 is expressed on hematopoietic stem cells (including multipotent hematopoietic stem cells, progenitors committed to myeloid and/or erythroid lineages, and T and B cell precursors), mast cells, and acute myeloid leukemia (AML) cells. CD117 interaction with its ligand is critical for the development of hematopoietic stem cells.

Antigen References:

- 1. Barclay A, et al. 1997. The Leukocyte Antigen FactsBook Academic Press.
- 2. Galli SJ, et al. 1994. Adv. Immunol. 55:1.
- 3. Ikuta K, et al. 1992. Annu. Rev. Immunol. 10:759.
- 4. Besmer P,