

**Brilliant Violet 510™ anti-human CD11c**

**Catalog # / Size:** 2457570 / 100 tests  
2457565 / 25 tests

**Clone:** S-HCL-3

**Isotype:** Mouse IgG2b, κ

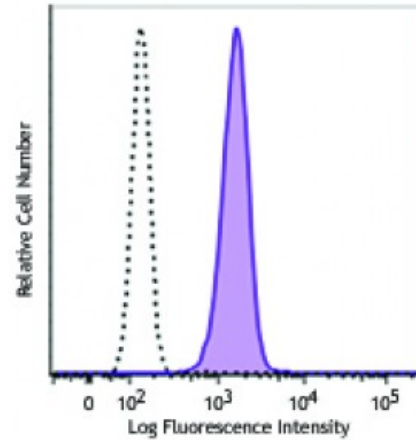
**Immunogen:** Spleen cells from patient diagnosed with hairy cell leukemia.

**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 510™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 510™ and unconjugated antibody.

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

**Concentration:** Lot-specific



Human peripheral blood granulocytes were stained with CD11c (clone S-HCL-3) Brilliant Violet 510™ (filled histogram) or mouse IgG2b, κ Brilliant Violet 510™ isotype control (open histogram).

**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 510™ excites at 405 nm and emits at 510 nm. The bandpass filter 510/50 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 510™ is a trademark of Sirigen Group Ltd.

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**Application Notes:** Additional reported applications (for the relevant formats) include: immunohistochemistry on frozen tissue sections<sup>1,2,3,4</sup> and immunoprecipitation<sup>1</sup>.

- Application References:**
1. Schwarting R, *et al.* 1985. *Blood* 65:974.
  2. Knowles DM, *et al.* 1990. *Am. J. Pathol.* 136:29.
  3. Vandenabeele S, *et al.* 2001. *Blood* 97:1733.
  4. Shaw JL, *et al.* 2011. *J. Reprod. Immunol.* 89:84.

**Description:** CD11c is a 145-150 kD type I transmembrane glycoprotein also known as integrin  $\alpha_x$  and CR4. CD11c non-covalently associates with integrin  $\beta_2$  (CD18) and is expressed on monocytes/macrophages, dendritic cells, granulocytes, NK cells, and subsets of T and B cells. CD11c has been reported to play a role in adhesion and CTL killing through its interactions with fibrinogen, CD54, and iC3b.

**Antigen**  
**References:**

1. Petty HR, Todd RF 3rd. 1996. *Immunol. Today* 17:209.
2. Springer T. 1994. *Cell* 76:301.
3. Ihanus E, *et al.* 2007. *Blood* 109:802-10.