

## Brilliant Violet 570™ anti-human CD56 (NCAM)

**Catalog # / Size:** 2191645 / 25 tests  
2191650 / 100 tests

**Clone:** HCD56

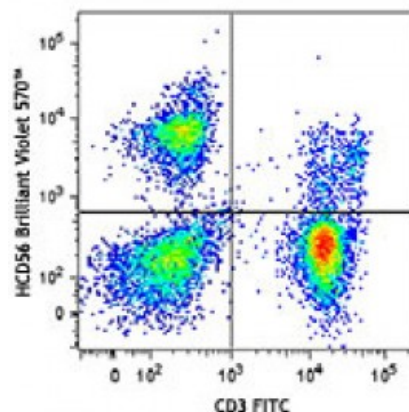
**Isotype:** Mouse IgG1,  $\kappa$

**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 570™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 570™ and unconjugated antibody.

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

**Concentration:** Lot-specific

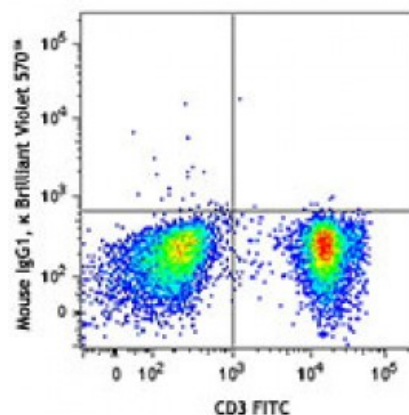


Human peripheral blood lymphocytes were stained with CD3 FITC and CD56 (clone HCD56) Brilliant Violet 570™ (top) or mouse IgG1,  $\kappa$  Brilliant Violet 570™ isotype control (bottom).

## 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, the suggested use of this reagent is  $\leq 5$  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 570™ excites at 405 nm and emits at 570 nm. The bandpass filter 585/42 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 570™ is a trademark of Sirigen Group Ltd.

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purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.

- Application**  
**References:**
1. Kishimoto T, *et al.* Eds. 1997. Leucocyte Typing VI. Garland Publishing Inc. London.
  2. Correia DV, *et al.* 2011. *Blood* 118:992. (FC) [PubMed](#)
  3. Vansaun MN, *et al.* 2013. *PLoS One*. 8:73054. [PubMed](#)
  4. Gang AO, *et al.* 2014. *Blood Cancer J*, 4:197. [PubMed](#)
  5. Freeman A, *et al.* 2014. *PLoS One*. 9:110928. [PubMed](#)
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**Description:** CD56 is a single transmembrane glycoprotein also known as NCAM (Neural Cell Adhesion Molecule), Leu-19, or NKH1. It is a member of the Ig superfamily. The 140 kD isoform is expressed on NK cells and NK-T cells. CD56 is also expressed in the brain (cerebellum and cortex) and at neuromuscular junctions. Certain large granular lymphocyte (LGL) leukemias, small-cell lung carcinomas, neuronal derived tumors, myelomas, and myeloid leukemias also express CD56. CD56 plays a role in homophilic and heterophilic adhesion via binding to itself or heparin sulfate.

- Antigen**  
**References:**
1. Lanier L, *et al.* 1991. *J. Immunol.* 146:4421.
  2. Hemperly J, *et al.* 1990. *J. Mol. Neurosci.* 2:71.
  3. Cremer H, *et al.* 1994. *Nature* 367:455.