

Brilliant Violet 750™ anti-human CD56 (NCAM)

Catalog # / 2412780 / 100 tests
Size: 2412775 / 25 tests

Clone: 5.1H11

Isotype: Mouse IgG1, κ

Immunogen: Human myotube cells.

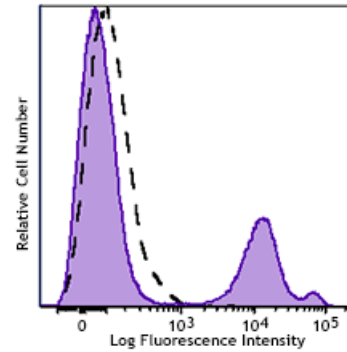
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 750™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 750™ and unconjugated antibody.

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

Workshop Number: HCDM listed

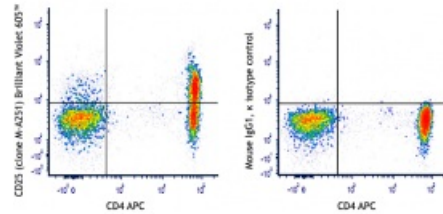
Concentration: Lot-specific



Human peripheral blood lymphocytes stained with CD56 (clone 5.1H11) Brilliant Violet 750™ (filled histogram) or mouse IgG1, κ Brilliant Violet 750™ isotype control (open histogram).

Applications:

Applications: Flow Cytometry



Human peripheral blood lymphocytes were stained with CD4 APC and CD25 (clone M-A251) Brilliant Violet 605™ (left) or Mouse IgG1, κ Brilliant Violet 605™ isotype control (right).

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 µl per million cells or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 750™ excites at 405 nm and emits at 750 nm. The bandpass filter 780/60 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 750™ is a trademark of Sirigen Group Ltd.

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Application Notes: Clone 14G2a is an isotype switch variant from parental hybridoma 14.18 (IgG3)¹. Additional reported applications (for the relevant formats) include: inducing apoptosis and enhancing cytotoxicity of chemotherapeutic drugs in the neuroblastoma cell line ². This clone has also been published as 14.G2a.

Application References:

1. Walsh FS, *et al.* 1981. *Nature* 289:60. (FC)
2. Pavlath GK, *et al.* 1986. *J. Cell Biol.* 102:124. (FC)
3. Pavlath GK, *et al.* 1989. *Nature* 337:570. (FC)
4. Pulido R, *et al.* 1988. *J. Immunol.* 140:3851. (FC)

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 and NKT 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 heparan 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.