

Brilliant Violet 605™ anti-human CD337 (NKp30)

Catalog # / Size: 2226165 / 25 tests
2226170 / 100 tests

Clone: P30-15

Isotype: Mouse IgG1, κ

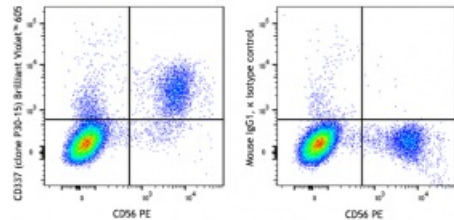
Immunogen: Recombinant human NKp30

Reactivity: Human, Non-human primate, Other

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 605™ under optimal conditions.

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 anti-human CD56 PE and anti-human CD337 (clone P30-15) Brilliant Violet™ 605 (left) or mouse IgG1, κ Brilliant Violet™ 605 isotype control (right).

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 µL per million cells in 100 µL staining volume 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 605™ excites at 405 nm and emits at 603 nm. The bandpass filter 610/20 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 605™ is a trademark of Sirigen Group Ltd.

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Application Notes: Additional reported applications (for the relevant formats) include: ELISA, stimulation of human NK cells via NKp30 in a redirected lysis assay, and blocking of NKp30 function in solution^{1,3,5}. The Ultra-LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. Nos. 325223 & 325224).

Application
References:

1. Stark S, et al. 2005. *J. Immunol. Methods* 296:149. (Block)
 2. Mansater I, et al. 2008. *J. Immunol.* 181:1869. [PubMed](#)
 3. Markel G, et al. 2009. *PLOS One* 4:e5597. (Block)
 4. Correia DV, et al. 2011. *Blood* 118:992. (FC) [PubMed](#)
 5. Byrd A, et al. 2007. *PLoS One.* 2:e1339. (Block)
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Description: The p30-15 monoclonal antibody recognizes CD337 also known as activating NK receptor NKp30 (NKp30), and natural cytotoxicity triggering receptor 3. NKp30 is a type I transmembrane protein, member of the natural cytotoxicity receptor family that contains one immunoglobulin-like domain. NKp30 has an apparent molecular weight of 30 kD and six isoforms are produced by alternative splicing. NKp30 is expressed on resting and activated NK cells. NKp30 enhances NK cell cytolysis of tumor cells that are deficient in MHC class I molecules. NKp30 has been shown to associate with CD59 and TCR ζ . The p30-15 antibody against human NKp30 has been shown to be useful for flow cytometry, stimulation of human NK cells via NKp30 in a redirected lysis assay, and blocking of NKp30 function in solution.

Antigen
References:

1. Pende D, et al. 1999. *J. Exp. Med.* 190:1505.