

**Brilliant Violet 711™ anti-human CD337 (NKp30)**

**Catalog # / Size:** 2226090 / 100 tests  
2226085 / 25 tests

**Clone:** P30-15

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

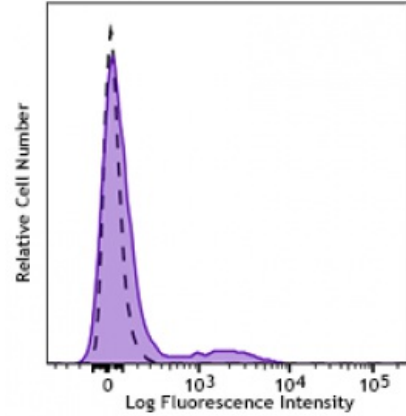
**Immunogen:** Recombinant human NKp30

**Reactivity:** Human, Non-human primate

**Preparation:** The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 711™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 711™ 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 Brilliant Violet 711™ CD337 (clone P30-15) (filled histogram) or Brilliant Violet 711™ mouse IgG1,  $\kappa$  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  $\mu$ l per million cells or 5  $\mu$ l per 100  $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 711™ excites at 405 nm and emits at 711 nm. The bandpass filter 710/50 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 711™ 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<sup>1,3,5</sup>.

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

**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 cytotoxicity of tumor cells that are deficient in MHC class I molecules. NKp30 has been shown to associate with CD59 and TCR $\zeta$ . 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.