

**Brilliant Violet 421™ anti-mouse CD25**

**Catalog # / Size:** 1109615 / 50 µg

**Clone:** 3C7

**Isotype:** Rat IgG2b, κ

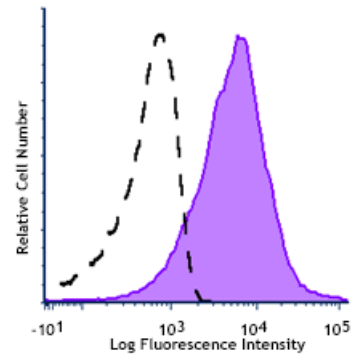
**Immunogen:** IL-2-dependent BALB/c mouse helper T-cell clone HT-2

**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 421™ and unconjugated antibody.

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

**Concentration:** 0.2 mg/ml



ConA/ IL-2 Stimulated (3 days) C57BL/6 splenocytes were stained with CD25 (clone 3C7) Brilliant Violet 421™ (filled histogram) or Rat IgG2b, κ Brilliant Violet 421™ isotlye 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 ≤ 0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd.

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**Application Notes:** Additional reported applications (for the relevant formats) include: *in vitro* blocking of IL-2 binding to low- and high-affinity receptors<sup>1,2</sup>, and immunohistochemical staining of acetone-fixed frozen sections. 3C7 antibody recognizes different epitope of PC61 antibody (Cat. No. 1110010).

**Application References:**

1. Ortega RG, *et al.* 1984. *J. Immunol.* 133:1970. (Block)
2. Moreau JL, *et al.* 1987. *Eur. J. Immunol.* 17:929. (Block)

**Description:** CD25 is a 55 kD glycoprotein, also known as the low affinity IL-2R $\alpha$ , Ly-43, p55, or Tac. It is expressed on activated T and B cells, thymocyte subset, pre-B cells, and T regulatory cells. In association with CD122 (IL-2R $\beta$ ) and CD132 (common  $\gamma$  chain), CD25 forms the high affinity signaling IL-2 receptor.

**Antigen**  
**References:**

1. Taniguchi T, *et al.* 1993. *Cell* 73:5.
2. Waldmann TA. 1991. *J. Biol. Chem.* 266:2681.
3. Read S, *et al.* 2000. *J. Exp. Med.* 192:295.
4. Lowenthal JW, *et al.* 1985. *J. Immunol.* 135:3988.