

**APC/Fire™ 750 anti-human CD21**

**Catalog # / Size:** 2374595 / 25 tests  
2374600 / 100 tests

**Clone:** Bu32

**Isotype:** Mouse IgG1, κ

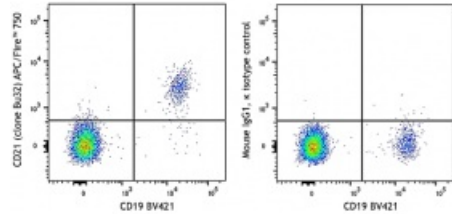
**Reactivity:** Human, Non-human primate, Other

**Preparation:** The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 under optimal conditions.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

**Workshop Number:** V CD21.4, VI CD21.5

**Concentration:** Lot-specific



Human peripheral blood lymphocytes were stained with CD19 BV421 and CD21 (clone Bu32, left) APC/Fire™ 750 or Mouse IgG1, κ APC/Fire™ 750 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.

\* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.

**Application Notes:** Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen sections<sup>4</sup>.

- Application References:**
1. Björck P, *et al.* 1993. *Eur. J. Immunol.* 23:1771.
  2. Frémeaux-Bacchi V, *et al.* 1996. *Eur. J. Immunol.* 26:1497.
  3. Ling NR, *et al.* 1995. *Clin. Exp. Immunol.* 101:369.
  4. Wang, C, *et al.* 2011. *BMC Immunol.* 12:53. (IHC)

**Description:** CD21 is a 145 kD transmembrane protein also known as complement C3d receptor (C3dR), complement receptor 2 (CR2), and Epstein-Barr virus receptor. CD21 is expressed on B cells, follicular dendritic cells, subsets of normal thymocytes and T cells, and some epithelial cells. CD21 is the receptor used by Epstein-Barr virus to infect B cells and is also the complement receptor for C3d. CD21 has also been shown to interact with a number of proteins, including CD23, CD19, annexin VI, CD81, iC3b, complement receptor 1 (CR1, CD35), and interferon-alpha 1 (IFN-α1).

- Antigen References:**
1. Kishimoto T, Eds. 1997. *Leukocyte Typing VI.* Garland Publishing Inc.
  2. Moore MD, *et al.* 1987. *Proc. Natl. Acad. Sci. USA* 84:9194.
  3. Szakonyi G, *et al.* 2001. *Science* 292:1725.
  4. Weis JJ, *et al.* 1984. *Proc. Natl. Acad. Sci. USA* 81:881.