

**APC/Cy7 anti-human IgD**

**Catalog # / Size:** 2341090 / 100 tests  
2341085 / 25 tests

**Clone:** IA6-2

**Isotype:** Mouse IgG2a, κ

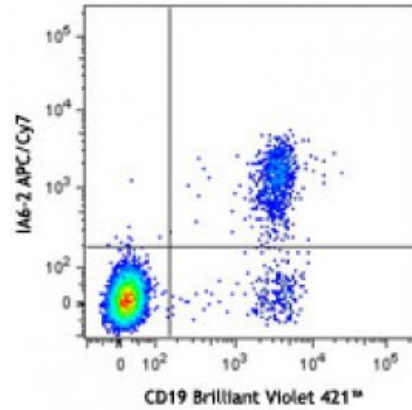
**Immunogen:** Human IgD

**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography and conjugated with APC/Cy7 under optimal conditions. The solution is free of unconjugated APC/Cy7 and unconjugated antibody.

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

**Concentration:** Lot-specific

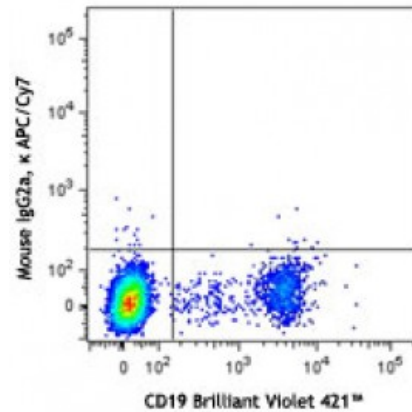


Human peripheral blood lymphocytes were stained with CD19 Brilliant Violet 421™ and IgD (clone IA6-2) APC/Cy7 (top) or mouse IgG2a, κ APC/Cy7 isotype control (bottom).

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



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

- Application References:**
1. Chen K, *et al.* 2009. *Nat. Immunol.* 10:889.
  2. Lee CH, *et al.* 2005. *J. Exp. Med.* 203:63.
  3. Sutter JA, *et al.* 2008. *Clin. Immunol.* 126:282.
  4. Li H and Pauza CD. 2015. *Eur. J. Immunol.* 45:298. (IHC)

**Description:** IgD, a member of the immunoglobulin (Ig) family, is expressed in naïve B cells. It has 3 Ig-like domains and exists in a transmembrane and a soluble form. In general, IgD is not secreted and usually its expression is lost after the Ig isotype switch. After antigen binding, IgD signals through the CD79a/CD79b (Igα/Igβ) heterodimer, resulting in the activation of the B cell.

- Antigen References:**
1. Geisberger R, *et al.* 2006. *Immunology* 118:429.
  2. Weller S, *et al.* 2005. *Eur. J. Immunol.* 35:2789.

3. Brandtzaeg P and Johansen FE. 2005. *Immunol. Rev.* 206:32.