SONY

Product Data Sheet

Pacific Blue™ anti-human IgD

Catalog # / Size: 2341115 / 25 tests
2341120 / 100 tests

Clone: IA6-2

Isotype: Mouse IgG2a, κ

Immunogen: Human IgD

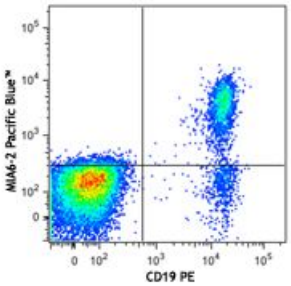
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Pacific Blue™ under optimal conditions.

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

Workshop Number: IV 103

Concentration: Lot-specific



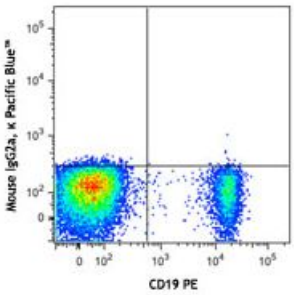
Human peripheral blood lymphocytes were stained with CD19 PE and IgD (clone IA6-2) Pacific Blue™ (top) or mouse IgG2a, κPacific Blue™ isotype control (bottom).

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

* Pacific Blue™ has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue™ conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.



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

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)

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products.

Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com

Description: IgD, a member of the immunoglobulin (Ig) family, is expressed in naï ve 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.

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products.