

Brilliant Violet 785™ anti-human IgD Antibody

Catalog# / Size	348241 / 25 tests 348242 / 100 tests
Clone	IA6-2
Regulatory Status	RUO
Other Names	Ig delta chain C region
Isotype	Mouse IgG2a, κ
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 (Iga/Igβ) heterodimer, resulting in the activation of the B cell.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Human IgD
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
Preparation	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 785™ under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	<p>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.</p> <p>Brilliant Violet 785™ excites at 405 nm and emits at 785 nm. The bandpass filter 780/60 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 785™ is a trademark of Sirigen Group Ltd.</p> <p>Learn more about Brilliant Violet™.</p> <p>This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.</p>
Excitation Laser	Violet Laser (405 nm)
Application Notes	Additional reported applications (for the relevant formats) include: immunohistochemical staining of paraformaldehyde fixed frozen sections ⁴ and spatial biology (IBEX) ^{5,6} .
Application References	<ol style="list-style-type: none"> Chen K, <i>et al.</i> 2009. <i>Nat. Immunol.</i> 10:889. Lee CH, <i>et al.</i> 2005. <i>J. Exp. Med.</i> 203:63.
(PubMed link indicates	

- BioLegend citation)**
3. Sutter JA, *et al.* 2008. *Clin. Immunol.* 126:282.
 4. Li H and Pauza CD. 2015. *Eur. J. Immunol.* 45:298. (IHC)
 5. Radtke AJ, *et al.* 2020. *Proc Natl Acad Sci USA.* 117:33455-33465. (SB) [PubMed](#)
 6. Radtke AJ, *et al.* 2022. *Nat Protoc.* 17:378-401. (SB) [PubMed](#)

- Product Citations**
1. Lindesmith LC, *et al.* 2020. *Cell Mol Gastroenterol Hepatol.* 0.586805556. [PubMed](#)
 2. Wang J, *et al.* 2020. *Cell.* 183(7):1867-1883.e26. [PubMed](#)
 3. Yu B, *et al.* 2021. *Cell.* 184(7):1790-1803.e17. [PubMed](#)

RRID

AB_2629808 (BioLegend Cat. No. 348241)
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Antigen Details

Structure	Exists in a transmembranal and a soluble form
Distribution	Naïve B cells
Function	Antigen binding, B cell activation
Interaction	The CD79a/CD79b heterodimer
Cell Type	B cells
Biology Area	Immunology
Antigen References	<ol style="list-style-type: none">1. Geisberger R, <i>et al.</i> 2006. <i>Immunology</i> 118:429.2. Weller S, <i>et al.</i> 2005. <i>Eur. J. Immunol.</i> 35:2789.3. Brandtzaeg P and Johansen FE. 2005. <i>Immunol. Rev.</i> 206:32.
Gene ID	3495

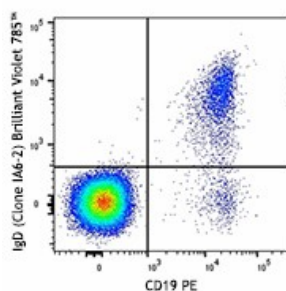
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

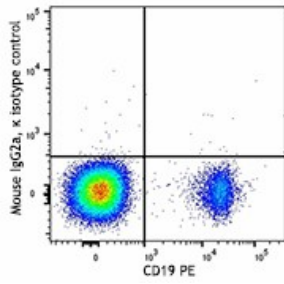
Other Formats

Purified anti-human IgD (Maxpar® Ready), PE/Dazzle™ 594 anti-human IgD, APC/Fire™ 750 anti-human IgD, Brilliant Violet 785™ anti-human IgD, TotalSeq™-A0384 anti-human IgD, TotalSeq™-C0384 anti-human IgD, TotalSeq™-B0384 anti-human IgD, PE/Cyanine5 anti-human IgD, Purified anti-human IgD, PE anti-human IgD, FITC anti-human IgD, PerCP/Cyanine5.5 anti-human IgD, PE/Cyanine7 anti-human IgD, Biotin anti-human IgD, Alexa Fluor® 488 anti-human IgD, APC/Cyanine7 anti-human IgD, Brilliant Violet 510™ anti-human IgD, APC anti-human IgD, Pacific Blue™ anti-human IgD, Brilliant Violet 421™ anti-human IgD, Alexa Fluor® 700 anti-human IgD, Brilliant Violet 605™ anti-human IgD, PerCP anti-human IgD, Alexa Fluor® 647 anti-human IgD

Product Data



Human peripheral blood lymphocytes were stained with CD19 PE and IgD (clone IA6-2) Brilliant Violet 785™ (top) or mouse IgG2a, κ Brilliant Violet 785™ isotype control (bottom).



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