

PE/Cyanine5 anti-human IgD Antibody

Catalog# / Size	348249 / 25 tests 348250 / 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 (Igα/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 PE/Cyanine5 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	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. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 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. Sutter JA, <i>et al.</i> 2008. <i>Clin. Immunol.</i> 126:282. Li H and Pauza CD. 2015. <i>Eur. J. Immunol.</i> 45:298. (IHC) Radtke AJ, <i>et al.</i> 2020. <i>Proc Natl Acad Sci USA.</i> 117:33455-33465. (SB) PubMed Radtke AJ, <i>et al.</i> 2022. <i>Nat Protoc.</i> 17:378-401. (SB) PubMed
(PubMed link indicates BioLegend citation)	
Product Citations	<ol style="list-style-type: none"> SoRelle ED, <i>et al.</i> 2022. <i>Front Immunol.</i> 13:1001145. PubMed Turner JS, <i>et al.</i> 2021. <i>Nature.</i> 596:109. PubMed Mudd PA, <i>et al.</i> 2022. <i>Cell.</i> 185:603. PubMed
RRID	AB_2876661 (BioLegend Cat. No. 348249) AB_2876661 (BioLegend Cat. No. 348250)

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	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

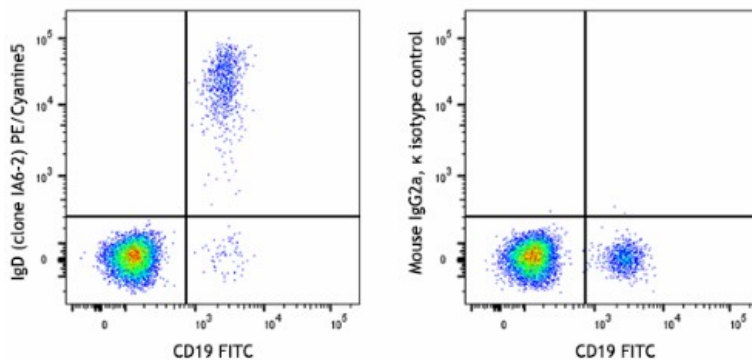
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Alexa Fluor® 647 anti-human IgD, PerCP anti-human IgD, Brilliant Violet 605™ anti-human IgD, Alexa Fluor® 700 anti-human IgD, Purified anti-human IgD, PE anti-human IgD, Biotin anti-human IgD, FITC anti-human IgD, PerCP/Cyanine5.5 anti-human IgD, PE/Cyanine7 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, 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, TotalSeq™-D0384 anti-human IgD

Product Data



Human peripheral blood lymphocytes were stained with anti-human IgD (clone IA6-2) PE/Cyanine5 (left) or mouse IgG2a, κ PE/Cyanine5 isotype control (right). Cells were co-stained with CD19 FITC.

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