

Alexa Fluor[®] 700 anti-mouse IgD Antibody

Catalog# / Size	405729 / 25 µg 405730 / 100 µg
Clone	11-26c.2a
Regulatory Status	RUO
Other Names	Immunoglobulin D
Isotype	Rat IgG2a, κ
Description	Surface IgD is an important B cell differentiation marker.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor [®] 700 under optimal conditions.
Concentration	0.5 mg/ml
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 SB - Reported in the literature, not verified in house
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 ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>* Alexa Fluor[®] 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor[®] 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.</p> <p>Alexa Fluor[®] and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p>View full statement regarding label licenses</p>
Excitation Laser	Red Laser (633 nm)
Application Notes	The 11-26c.2a antibody reacts with immunoglobulin D in all tested mouse haplotypes. The antibody binds membrane IgD expressed on most B cells. The 11-26c.2a antibody neither induces proliferation of splenic B cells nor induces B cell activation. Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen sections ^{2,3} , and spatial biology (IBEX) ^{10,11} .
Additional Product Notes	Iterative Bleaching Extended multi-pleXity (IBEX) is a fluorescent imaging technique capable of highly-multiplexed spatial analysis. The method relies on cyclical bleaching of panels of fluorescent antibodies in order to image and analyze many markers over multiple cycles of staining, imaging, and, bleaching. It is a community-developed open-access method developed by the Center for Advanced Tissue Imaging (CAT-I) in the National Institute of Allergy and Infectious Diseases (NIAID, NIH).
Application References	<ol style="list-style-type: none"> 1. Nitschke L, <i>et al.</i> 1993. <i>P. Natl. Acad. Sci. USA</i> 90:1887. (FC) 2. Weih D, <i>et al.</i> 2001. <i>J. Immunol.</i> 167:1909. (IHC) 3. Koni PA, <i>et al.</i> 2001. <i>J. Exp. Med.</i> 193:741. (IHC)

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Product Citations

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RRID

AB_2563340 (BioLegend Cat. No. 405729)

AB_2563341 (BioLegend Cat. No. 405730)

Antigen Details

Structure	Ig family
Distribution	B cells
Function	B cell differentiation
Cell Type	B cells
Biology Area	Immunology
Gene ID	380797

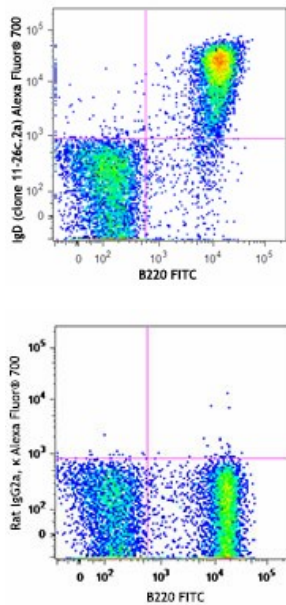
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

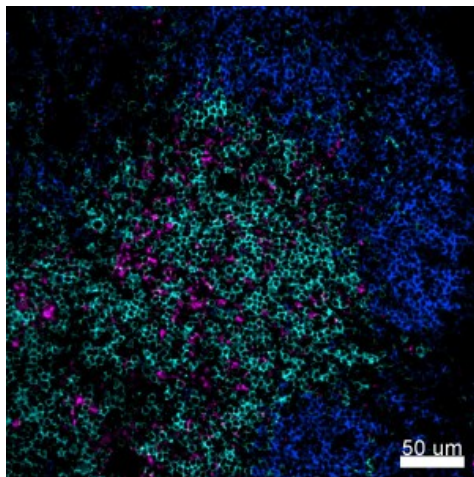
Other Formats

FITC anti-mouse IgD, PE anti-mouse IgD, Purified anti-mouse IgD, PerCP anti-mouse IgD, Biotin anti-mouse IgD, Brilliant Violet 711™ anti-mouse IgD, Alexa Fluor® 700 anti-mouse IgD, Alexa Fluor® 647 anti-mouse IgD, PerCP/Cyanine5.5 anti-mouse IgD, Pacific Blue™ anti-mouse IgD, APC anti-mouse IgD, APC/Cyanine7 anti-mouse IgD, Alexa Fluor® 488 anti-mouse IgD, PE/Cyanine7 anti-mouse IgD, Brilliant Violet 650™ anti-mouse IgD, Brilliant Violet 510™ anti-mouse IgD, Brilliant Violet 421™ anti-mouse IgD, Brilliant Violet 605™ anti-mouse IgD, Purified anti-mouse IgD (Maxpar® Ready), Alexa Fluor® 594 anti-mouse IgD, PE/Dazzle™ 594 anti-mouse IgD, APC/Fire™ 750 anti-mouse IgD, TotalSeq™-A0571 anti-mouse IgD, TotalSeq™-C0571 anti-mouse IgD, Spark NIR™ 685 anti-mouse IgD, TotalSeq™-B0571 anti-mouse IgD Antibody, Spark Violet™ 423 anti-mouse IgD, PE/Cyanine5 anti-mouse IgD

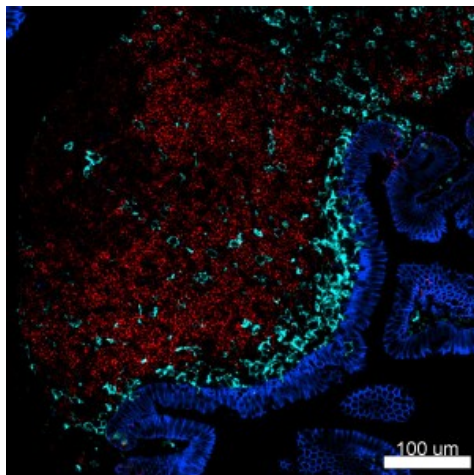
Product Data



C57BL/6 mouse splenocytes were stained with B220 FITC and IgD (clone 11-26c.2a) Alexa Fluor® 700 (top) or rat IgG2a, κ Alexa Fluor® 700 isotype control (bottom).



Confocal image of C57BL/6 mouse spleen sample acquired using the IBEX method of highly multiplexed antibody-based imaging: CD4 (cyan), CD8 (magenta), and IgD (blue) in Cycle 1. Tissues were prepared using ~1% (vol/vol) formaldehyde and a detergent. Following fixation, samples are immersed in 30% (wt/vol) sucrose for cryoprotection. Images are courtesy of Drs. Andrea J. Radtke and Ronald N. Germain of the Center for Advanced Tissue Imaging (CAT-I) in the National Institute of Allergy and Infectious Diseases (NIAID, NIH).



Confocal image of C57BL/6 mouse small intestine sample acquired using the IBEX method of highly multiplexed antibody-based imaging: EpCAM (blue) in Cycle 1, IgD (red) in Cycle 1, and CD11c (cyan) in Cycle 3. Tissues were prepared using ~1% (vol/vol) formaldehyde and a detergent. Following fixation, samples are immersed in 30% (wt/vol) sucrose for cryoprotection. Images are courtesy of Drs. Andrea J. Radtke and Ronald N. Germain of the Center for Advanced Tissue Imaging (CAT-I) in the National Institute of Allergy and Infectious Diseases (NIAID, NIH).

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