

Spark Violet™ 423 anti-mouse IgD Antibody

Catalog# / Size	405753 / 25 µg 405754 / 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 Spark Violet™ 423 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
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>* Spark Violet™ 423 has a maximum excitation of 400 nm and a maximum emission of 415 nm.</p>
Excitation Laser	Violet Laser (405 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} .
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)4. Ahuja A, <i>et al.</i> 2007. <i>J. Immunol.</i> 179:3351. (FC) PubMed5. Haynes NM, <i>et al.</i> 2007. <i>J. Immunol.</i> 179:5099. (FC)6. Good-Jacobson KL, <i>et al.</i> 2010. <i>Nat. Immunol.</i> 11:535. (FC) PubMed7. Tomayko MM, <i>et al.</i> 2010. <i>J. Immunol.</i> 185:7146. PubMed8. Park SY, <i>et al.</i> 2013. <i>J. Immunol.</i> 190:1094. PubMed9. Rouaud P, <i>et al.</i> 2014. <i>J Exp Med.</i> 211:975. PubMed10. Radtke AJ, <i>et al.</i> 2020. <i>Proc Natl Acad Sci U S A.</i> 117:33455-65. (SB) PubMed11. Radtke AJ, <i>et al.</i> 2022. <i>Nat Protoc.</i> 17:378-401. (SB) PubMed
RRID	AB_2904426 (BioLegend Cat. No. 405753) AB_2904426 (BioLegend Cat. No. 405754)

Antigen Details

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

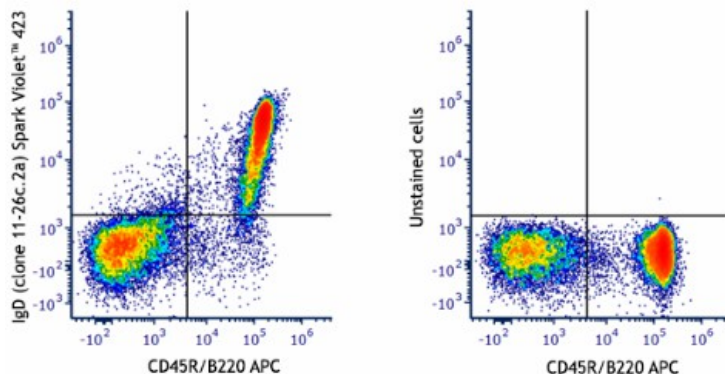
Related Protocols

[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 splenocytes were stained with anti-mouse/human CD45R/B220 APC and anti-mouse IgD (clone 11-26c.2a) Spark Violet™ 423 (left) or with anti-mouse/human CD45R/B220 APC only (right).

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