PE/Dazzle™ 594 anti-mouse IgD Antibody

Catalog# / Size	405741 / 25 µg 405742 / 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 PE/Dazzle™ 594 under optimal conditions.
Concentration	0.2 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	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 ≤0.125 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application. * PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 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

1. Nitschke L, *et al.* 1993. *P. Natl. Acad. Sci. USA* 90:1887. (FC)
2. Weih D, *et al.* 2001. *J. Immunol.* 167:1909. (IHC)
3. Koni PA, *et al.* 2001. *J. Exp. Med.* 193:741. (IHC)
4. Ahuja A, *et al.* 2007. *J. Immunol.* 179:3351. (FC) PubMed
5. Haynes NM, *et al.* 2007. *J. Immunol.* 179:5099. (FC)
6. Good-Jacobson KL, *et al.* 2010. *Nat. Immunol.* 11:535. (FC) PubMed
7. Tomayko MM, *et al.* 2010. *J. Immunol.* 185:7146. PubMed
8. Park SY, *et al.* 2013. *J. Immunol.* 190:1094. PubMed
9. Rouaud P, *et al.* 2014. *J Exp Med.* 211:975. PubMed
10. Radtke AJ, *et al.* 2020. *Proc Natl Acad Sci U S A.* 117:33455-65. (SB) PubMed
11. Radtke AJ, *et al.* 2022. *Nat Protoc.* 17:378-401. (SB) PubMed

Product Citations

1. Kimura S, *et al.* 2020. Nat Commun. 0.620833333. PubMed
2. Pack AD, *et al.* 2021. Cell Reports. 36(8):109586. PubMed
3. Rodriguez AB, *et al.* 2021. Cell Reports. 36(3):109422. PubMed

4. Wong R, *et al.* 2020. Immunity. 53(5):1078-1094.e7. PubMed
5. Gary E, *et al.* 2020. Vaccine. 3821:38. PubMed

RRID AB_2571984 (BioLegend Cat. No. 405741)
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Antigen Details

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

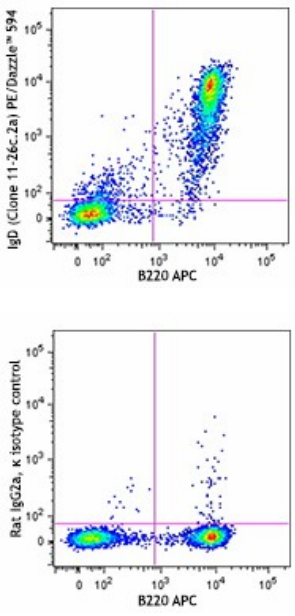
Related Protocols

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 APC and IgD (clone 11-26c.2a) PE/Dazzle™ 594 (top) or rat IgG2a, κ PE/Dazzle™ 594 isotype control (bottom).

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