

PE/Fire™ 744 anti-human IgD Antibody

Catalog# / Size	307829 / 25 tests 307830 / 100 tests
Clone	W18340F
Regulatory Status	RUO
Other Names	Ig delta chain C region
Isotype	Rat 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 (Ig α /Ig β) heterodimer, resulting in the activation of the B cell. (BioLegend Website)

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Native human IgD protein (full length)
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/Fire™ 744 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
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. True-Stain Monocyte Blocker™ (Cat No. 426102) is recommended to minimize non-specific staining of PE/Fire™ 744 on monocytes and macrophages. * PE/Fire™ 744 has a maximum excitation of 565 nm and a maximum emission of 744 nm.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	This clone does not cross react with mouse tissues.
RRID	AB_3717221 (BioLegend Cat. No. 307829) AB_3717221 (BioLegend Cat. No. 307830)

Antigen Details

Distribution	Naïve B cells
Function	Antigen binding, B cell activation
Cell Type	B cells
Biology Area	Immunology

Antigen References

1. Geisberger R, *et al.* 2006. *Immunology*. 118:429-37.
2. Weller S, *et al.* 2005. *Eur J Immunol*. 35:2789-92.
3. Brandtzaeg P & Johansen FE. 2005. *Immunol Rev*. 206:32-63.

Gene ID [3495](#)

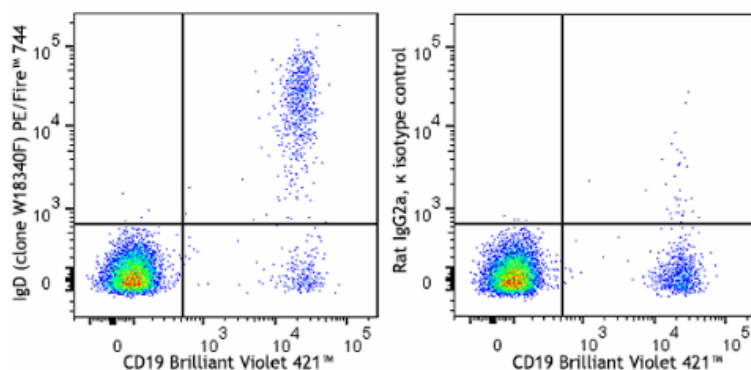
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Spark YG™ 581 anti-human IgD, PerCP/Cyanine5.5 anti-human IgD, FITC anti-human IgD, PE/Dazzle™ 594 anti-human IgD, Spark Violet™ 423 anti-human IgD, PerCP/Fire™ 806 anti-human IgD, Alexa Fluor® 700 anti-human IgD, APC/Cyanine7 anti-human IgD, APC/Fire™ 750 anti-human IgD, PE/Cyanine7 anti-human IgD, APC anti-human IgD, Pacific Blue™ anti-human IgD, PE/Fire™ 744 anti-human IgD, PE anti-human IgD, Purified anti-human IgD

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD19 (clone HIB19) Brilliant Violet 421™ and anti-human IgD (clone W18340F) PE/Fire™ 744 (left) or rat IgG2a, κ PE/Fire™ 744 isotype control (right).

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