

PE/Fire™ 744 anti-human IgM Antibody

Catalog# / Size	314571 / 25 tests 314572 / 100 tests
Clone	MHM-88
Regulatory Status	RUO
Other Names	Immunoglobulin M
Isotype	Mouse IgG1, κ
Description	IgM is the first immunoglobulin made by B cells in the immune response. Surface IgM is expressed on immature and mature B cells, while IgM heavy (μ) chain is expressed intracellularly in pre-B cells.

Product Details

Verified Reactivity	Human
Reported Reactivity	African Green, Baboon, Cynomolgus, Rhesus
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Human Ig cocktail
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	MHM-88 antibody reacts with both soluble and membrane human immunoglobulin M (IgM). It does not react with other Ig isotypes. Additional reported applications (for the relevant formats) include: use as a primary or secondary reagent for ELISA analysis. Due to the presence of excess soluble IgM in whole blood, which competes for antibody binding, staining for IgM on cells in whole blood is not recommended.

Application References

1. Perez-Shiyama C, *et al.* 2014. *J Immunol.* 192:5192. [PubMed](#)

(PubMed link indicates
BioLegend citation)

Antigen Details

Structure	Ig family
Distribution	B cells
Function	B cell differentiation, humoral immune response; cross-linking surface IgM induces apoptosis
Cell Type	B cells
Biology Area	Immunology
Gene ID	3507

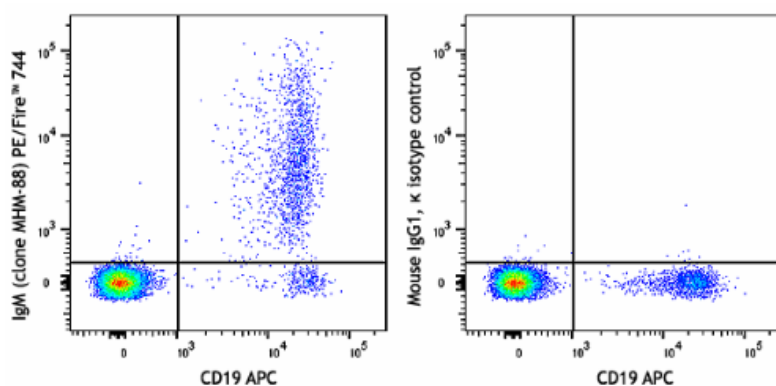
Related Protocols

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

Other Formats

Spark Blue™ 550 anti-human IgM, Spark Blue™ 515 anti-human IgM, PE/Fire™ 640 anti-human IgM, Spark Violet™ 423 anti-human IgM Antibody, Spark Red™ 718 anti-human IgM (Flexi-Fluor™), Spark YG™ 593 anti-human IgM, Purified anti-human IgM (Maxpar® Ready), PE/Dazzle™ 594 anti-human IgM, Alexa Fluor® 488 anti-human IgM, Alexa Fluor® 700 anti-human IgM, PE/Cyanine7 anti-human IgM, Alexa Fluor® 647 anti-human IgM, Brilliant Violet 711™ anti-human IgM, APC/Cyanine7 anti-human IgM, Brilliant Violet 570™ anti-human IgM, TotalSeq™-D0136 anti-human IgM, Pacific Blue™ anti-human IgM, Brilliant Violet 605™ anti-human IgM, Brilliant Violet 750™ anti-human IgM, Brilliant Violet 650™ anti-human IgM, FITC anti-human IgM, PE/Fire™ 700 anti-human IgM, StarBright UltraViolet 795 anti-human IgM, GMP APC anti-human IgM, Spark YG™ 581 anti-human IgM (Flexi-Fluor™), PE/Fire™ 744 anti-human IgM, Spark PLUS V475™ anti-human IgM (Flexi-Fluor™), PE anti-human IgM, PerCP/Cyanine5.5 anti-human IgM, APC/Fire™ 750 anti-human IgM, TotalSeq™-B0136 anti-human IgM, Brilliant Violet 510™ anti-human IgM, Spark UV™ 387 anti-human IgM (Flexi-Fluor™), Spark NIR™ 685 anti-human IgM (Flexi-Fluor™), Purified anti-human IgM, Biotin anti-human IgM, TotalSeq™-A0136 anti-human IgM, Brilliant Violet 785™ anti-human IgM, Brilliant Violet 421™ anti-human IgM, APC anti-human IgM, Spark PLUS UV395™ anti-human IgM Antibody, TotalSeq™-C0136 anti-human IgM

Product Data



Overnight cultured human peripheral blood mononuclear cells were stained with anti-human CD19 (clone HIB19) APC and anti-human IgM (clone MHM-88) PE/Fire™ 744 (left) or mouse IgG1, κ PE/Fire™ 744 isotype control (right). Data shown was gated on lymphocytes.

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