

TotalSeq™-C0450 anti-mouse IgM Antibody

Catalog# / Size	406541 / 10 µg
Clone	RMM-1
Regulatory Status	RUO
Other Names	Immunoglobulin M
Isotype	Rat IgG2a, κ
Barcode Sequence	AGCTACGCATTCAAT
Description	IgM is the first immunoglobulin made by B cells in the immune response. Surface IgM is expressed on the majority of mature B cells.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Mouse Ig cocktail
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 1 mM EDTA
Preparation	The antibody was purified by chromatography and conjugated with TotalSeq™-C oligomer under optimal conditions.
Concentration	0.5 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. Do not freeze.
Application	PG - Quality tested
Recommended Usage	<p>Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis and the oligomer sequence is confirmed by sequencing. TotalSeq™-C antibodies are compatible with 10x Genomics Chromium Single Cell Immune Profiling Solution.</p> <p>To maximize performance, it is strongly recommended that the reagent be titrated for each application, and that you centrifuge the antibody dilution before adding to the cells at 14,000xg at 2 - 8°C for 10 minutes. Carefully pipette out the liquid avoiding the bottom of the tube and add to the cell suspension. For Proteogenomics analysis, the suggested starting amount of this reagent for titration is ≤ 1.0 µg per million cells in 100 µL volume. Refer to the corresponding TotalSeq™ protocol for specific staining instructions.</p> <p>Buyer is solely responsible for determining whether Buyer has all intellectual property rights that are necessary for Buyer's intended uses of the BioLegend TotalSeq™ products. For example, for any technology platform Buyer uses with TotalSeq™, it is Buyer's sole responsibility to determine whether it has all necessary third party intellectual property rights to use that platform and TotalSeq™ with that platform.</p>
Application Notes	The RMM-1 antibody reacts with both soluble and membrane immunoglobulin M in all tested mouse haplotypes (Igh-a and b). It does not react with other isotypes. Some formats of the RMM-1 antibody may be used as primary or secondary reagent for immunofluorescent staining or ELISA analysis.
Additional Product Notes	<p>TotalSeq™ reagents are designed to profile protein levels at a single cell level following an optimized protocol similar to the CITE-seq workflow. A compatible single cell device (e.g. 10x Genomics Chromium System and Reagents) and sequencer (e.g. Illumina analyzers) are required. Please contact technical support for more information, or visit biolegend.com/totalseq.</p> <p>The barcode flanking sequences are CGGAGATGTGTATAAGAGACAGNNNNNNNNNN (PCR handle), and NNNNNNNNNCCCATATAAGA*A*A (capture sequence). N represents either randomly selected A, C, G, or T, and * indicates a phosphorothioated bond, to prevent nuclease</p>

degradation.

View more applications data for this product in our [Scientific Poster Library](#).

Application References

(PubMed link indicates BioLegend citation)

1. Tertilt C, *et al.* 2009. *Infect. Immun.* 77:3044. (ELISA) [PubMed](#)

RRID AB_2861022 (BioLegend Cat. No. 406541)

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	16019

Related Protocols

[TotalSeq™-B or -C with 10x Feature Barcoding Technology](#)

Other Formats

Purified anti-mouse IgM, PE anti-mouse IgM, Biotin anti-mouse IgM, FITC anti-mouse IgM, APC anti-mouse IgM, PerCP/Cyanine5.5 anti-mouse IgM, APC/Cyanine7 anti-mouse IgM, Brilliant Violet 421™ anti-mouse IgM, PE/Cyanine7 anti-mouse IgM, Alexa Fluor® 488 anti-mouse IgM, Brilliant Violet 605™ anti-mouse IgM, Alexa Fluor® 647 anti-mouse IgM, Purified anti-mouse IgM (Maxpar® Ready), PE/Dazzle™ 594 anti-mouse IgM, Brilliant Violet 510™ anti-mouse IgM, TotalSeq™-A0450 anti-mouse IgM, Brilliant Violet 711™ anti-mouse IgM, APC/Fire™ 750 anti-mouse IgM, TotalSeq™-C0450 anti-mouse IgM, PE/Cyanine5 anti-mouse IgM, TotalSeq™-B0450 anti-mouse IgM, Spark Violet™ 423 anti-mouse IgM

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