

IgM Monoclonal Antibody (II/41), FITC, eBioscience™

Product Details	
Size	50 µg
Species Reactivity	Mouse
Published Species	Fish, Mouse, Human
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	II/41
Conjugate	FITC
Excitation/Emission Max	498/517 nm
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_465244

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	Assay-Dependent	3 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	10 µg/mL	2 Publications
Flow Cytometry (Flow)	0.25 µg/test	42 Publications
ELISA (ELISA)	-	5 Publications
T-Cell Activation (TCA)	-	1 Publication

Product Specific Information

Description: The II/41 monoclonal antibody reacts with the mu heavy chain of mouse IgM. It does not react with other classes of mouse immunoglobulin including IgD, IgG or IgA. IgM is expressed intracellularly, during early stages of B lymphopoiesis, and then on the surface of more mature B cells in the bone marrow and peripheral B cells. Fluorochrome conjugated II/41 can be used as a detection secondary for mouse IgM.

Applications Reported: The II/41 antibody has been reported for use in flow cytometric analysis, immunohistochemical staining, and immunocytochemistry.

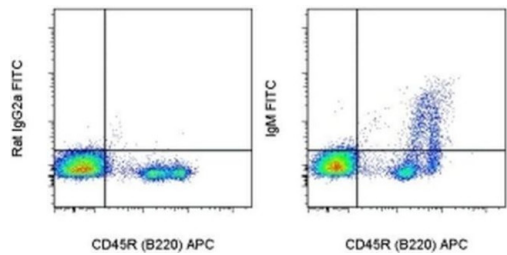
Applications Tested: This II/41 antibody has been tested by flow cytometric analysis of mouse bone marrow cells. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. This II/41 antibody has been tested by immunocytochemistry of fixed cells using a mouse IgM primary antibody. This antibody can be used at less than or equal to 10 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the

assay of interest.

Excitation: 488 nm; Emission: 520 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For IgM Monoclonal Antibody (II/41), FITC, eBioscience™



IgM Antibody (11-5790-81) in Flow
Staining of C57BL/6 bone marrow cells with Anti-Human/Mouse CD45R (B220) APC (Product # 17-0452-82) and 0.125 µg of Rat IgG2a K Isotype Control FITC (Product # 11-4321-42) (left) or 0.125 µg of Anti-Mouse IgM FITC (right). Total viable cells were used for analysis.

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Immunohistochemistry (3)

<p>Nature communications</p> <p>Rad52 mediates class-switch DNA recombination to IgD.</p> <p>"Published figure using IgM monoclonal antibody (Product # 11-5790-81) in Immunohistochemistry"</p> <p>Authors: Xu Y,Zhou H,Post G,Zan H,Casali P</p>	<p>Year</p> <p>2022</p>
<p>Autophagy</p> <p>B cell autophagy mediates TLR7-dependent autoimmunity and inflammation.</p> <p>"11-5790 was used in Flow cytometry/Cell sorting to demonstrate that autophagy plays an essential role in TLR7 activation of B cells for the induction of systemic lupus erythematosus."</p> <p>Authors: Weindel CG,Richey LJ,Bolland S,Mehta AJ,Kearney JF,Huber BT</p>	<p>Year</p> <p>2016</p> <p>Species</p> <p>Mouse</p>

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Immunohistochemistry (Frozen) (1)

<p>Gut</p> <p>Ectopic lymphoid tissue alters the chemokine gradient, increases lymphocyte retention and exacerbates murine ileitis.</p> <p>"11-5790 was used in Immunofluorescence to study the contribution of the CCR7/CCL19/CCL21 chemokine axis during the development of tertiary lymphoid tissue and its role in disease."</p> <p>Authors: McNamee EN,Masterson JC,Jedlicka P,Collins CB,Williams IR,Rivera-Nieves J</p>	<p>Year</p> <p>2013</p> <p>Species</p> <p>Mouse</p>
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Immunocytochemistry (2)

<p>Immunity</p> <p>Nuclear export of the NF-B inhibitor IB is required for proper B cell and secondary lymphoid tissue formation.</p> <p>"Published figure using IgM monoclonal antibody (Product # 11-5790-81) in Flow Cytometry"</p> <p>Authors: Wuerzberger-Davis SM,Chen Y,Yang DT,Kearns JD,Bates PW,Lynch C,Ladell NC,Yu M,Podd A,Zeng H,Huang TT,Wen R,Hoffmann A,Wang D,Miyamoto S</p>	<p>Year</p> <p>2011</p> <p>Species</p> <p>Mouse</p>
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More applications with references on thermofisher.cn

- Flow (42)
- ELISA (5)
- TCA (1)

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