

# IgM Monoclonal Antibody (II/41), eFluor™ 570, eBioscience™

## Product Details

Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), eFluor™ 570, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	II/41
Conjugate	eFluor™ 570
Excitation/Emission Max	556/569 nm
Form	Liquid
Concentration	0.2 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_2573617

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	4 Publications
Immunohistochemistry (Frozen) (IHC (F))	10 µg/mL	-
Immunocytochemistry (ICC/IF)	10 µg/mL	2 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:** This II/41 antibody has been reported for use in immunohistochemical staining of frozen tissue sections, and immunocytochemistry.

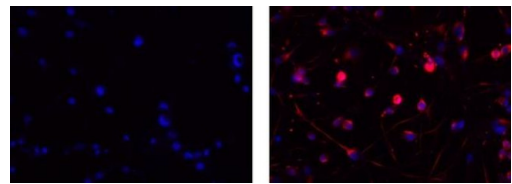
**Applications Tested:** This II/41 antibody has been tested by immunocytochemistry on fixed, differentiated OLN93 cells with O1 (Anti-Oligodendrocyte Marker) primary antibody, and by immunohistochemistry (IHC-P) on FFPE human tonsil with HI98 (Anti-CD15) as the primary antibody. This II/41 antibody 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.

**Filter Recommendation:** When using this eFluor® 570 antibody conjugate, we recommend a filter that will capture the 570 emission wavelength (for example, Excitation 545/25, 565LP, Emission 605/70). A standard Alexa Fluor® 555 or TRITC filter is

acceptable.

Excitation: 555 nm; Emission: 570 nm

**Product Images For IgM Monoclonal Antibody (II/41), eFluor™ 570, eBioscience™**



**IgM Antibody (41-5790-82) in ICC/IF**

Immunocytochemistry on fixed, differentiated OLN93 cells using 10 µg/mL Mouse IgM Isotype Control Purified (left) or 10 µg/mL Anti-Oligodendrocyte Marker O1 Purified (right) followed by 10 µg/mL Anti-Mouse IgM eFluor® 570. Nuclei are counterstained with DAPI.

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## Immunohistochemistry (4)

<p><b>Immunity</b></p> <p><b>Viral infection engenders bona fide and bystander subsets of lung-resident memory B cells through a permissive mechanism.</b></p> <p>"41-5790-82 was used in Immunohistochemistry-immunofluorescence to find that combining influenza and SARS-CoV-2 infection with fluorescent-reporter mice produce distinct subsets of MBCs colonized the lung peribronchial niche after infection."</p> <p>Authors: Gregoire C, Spinelli L, Villazala-Merino S, Gil L, Holgado MP, Moussa M, Dong C, Zarubica A, Fallet M, Navarro JM, Malissen B, Milpied P, Gaya M</p>	<p><b>Year</b> 2022</p> <p><b>Species</b> Mouse</p>
<p><b>Nature communications</b></p> <p><b>Rad52 mediates class-switch DNA recombination to IgD.</b></p> <p>"Published figure using IgM monoclonal antibody (Product # 41-5790-82) in Immunohistochemistry"</p> <p>Authors: Xu Y, Zhou H, Post G, Zan H, Casali P</p>	<p><b>Year</b> 2022</p>

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## Immunocytochemistry (2)

<p><b>Immunity</b></p> <p><b>Nuclear export of the NF-B inhibitor IB is required for proper B cell and secondary lymphoid tissue formation.</b></p> <p>"Published figure using IgM monoclonal antibody (Product # 41-5790-82) in Immunofluorescence"</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><b>Year</b> 2011</p> <p><b>Species</b> Mouse</p>
<p><b>Blood</b></p> <p><b>A critical role of TAK1 in B-cell receptor-mediated nuclear factor kappaB activation.</b></p> <p>"Published figure using IgM monoclonal antibody (Product # 41-5790-82) in Immunofluorescence"</p> <p>Authors: Schuman J, Chen Y, Podd A, Yu M, Liu HH, Wen R, Chen ZJ, Wang D</p>	<p><b>Year</b> 2009</p>

## More applications with references on thermofisher.com

ELISA (5)   TCA (1)

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