

# CD19 Monoclonal Antibody (MB19-1), PE, eBioscience™

Product Details	
Size	200 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Mouse / IgA, kappa
Class	Monoclonal
Type	Antibody
Clone	MB19-1
Conjugate	PE
Excitation/Emission Max	565/576 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_465578

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Flow Cytometry (Flow)	0.5 µg/test	15 Publications

## Product Specific Information

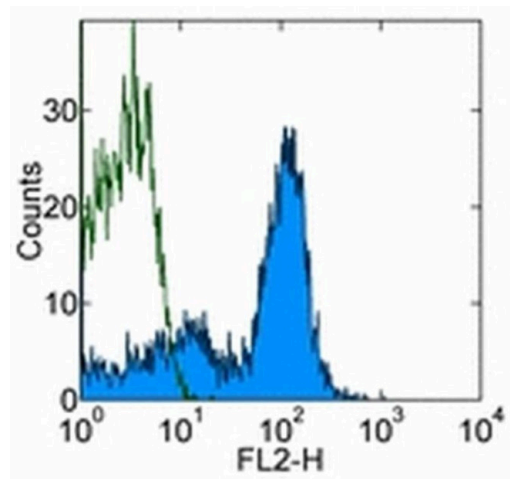
**Description:** The MB19-1 monoclonal antibody reacts with mouse CD19, a 95 kDa transmembrane glycoprotein. CD19 is expressed by B cells during all stages of development excluding the terminally differentiated plasma cells. Follicular dendritic cells also express CD19. Together CD21, CD81, MHC class II, and CD19 form a multimolecular complex that associates with the BCR. Signaling through CD19 induces tyrosine phosphorylation, calcium flux and proliferation of B cells. Staining of B cells with MB19-1 and its conjugates is usually dimmer than the rat anti-mouse CD19 antibody, clone 6D5.

**Applications Reported:** The MB19-1 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** The MB19-1 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.5 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 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

**Excitation:** 488-561 nm; **Emission:** 578 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

**Filtration:** 0.2 µm post-manufacturing filtered.



**CD19 Antibody (12-0191-83) in Flow**

Staining of BALB/c splenocytes with staining buffer (autofluorescence) (open histogram) or Anti-Mouse CD19 PE (filled histogram). Cells in the lymphocyte gate were used for analysis.

Immunohistochemistry (1)

<p>Mucosal immunology</p> <p><b>A critical role for cellular inhibitor of protein 2 (cIAP2) in colitis-associated colorectal cancer and intestinal homeostasis mediated by the inflammasome and survival pathways.</b></p> <p>"12-0191 was used in Immunofluorescence-paraffin to investigate the function of cellular inhibitors of apoptosis proteins in intestinal cancer and mechanisms in disease pathogenesis."</p> <p>Authors: Dagenais M,Dupaul-Chicoine J,Champagne C,Skeldon A,Morizot A,Saleh M</p>	<p>Year 2016</p> <p>Species Mouse</p>
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Immunohistochemistry (Paraffin) (1)

<p>Scientific reports</p> <p><b>Estrogen-related receptor alpha (ERR) is a key regulator of intestinal homeostasis and protects against colitis.</b></p> <p>"12-0191-82 was used in Immunohistochemistry (Paraffin) to report a protective role of estrogen-related receptor alpha in the intestine."</p> <p>Authors: Tran A,Scholtes C,Songane M,Champagne C,Galarneau L,Levasseur MP,Fodil N,Dufour CR,Giguère V,Saleh M</p>	<p>Year 2021</p> <p>Species Mouse</p>
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Flow Cytometry (15)

<p>Journal of immunology (Baltimore, Md. : 1950)</p> <p><b>Cooperation of Gastric Mononuclear Phagocytes with <i>Helicobacter pylori</i> during Colonization.</b></p> <p>"12-0191 was used in Flow cytometry/Cell sorting to report the induction of IL-10-driven regulatory responses mediated by CD11b+F4/80hiCD64+CX3CR1+ MNP that contribute to maintaining high levels of Helicobacter pylori loads in the stomach by modulating effector T cell responses at the gastric mucosa."</p> <p>Authors: Viladomiu M,Bassaganya-Riera J,Tubau-Juni N,Kronsteiner B,Leber A,Philipson CW,Zoccoli-Rodriguez V, Hontecillas R</p>	<p>Year 2017</p> <p>Species Mouse</p>
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<p>Circulation research</p> <p><b>Dectin-2 Deficiency Modulates Th1 Differentiation and Improves Wound Healing After Myocardial Infarction.</b></p> <p>"12-0191 was used in Flow cytometry/Cell sorting to determine whether Dectin-2 signalling is involved in the healing process and cardiac remodelling after myocardial infarction and to elucidate the underlying molecular mechanisms."</p> <p>Authors: Yan X,Zhang H,Fan Q,Hu J,Tao R,Chen Q,Iwakura Y,Shen W,Lu L,Zhang Q,Zhang R</p>	<p>Year 2017</p> <p>Species Mouse</p> <p>Dilution 1:400</p>
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