

# CD3 Monoclonal Antibody (eBioG4.18 (G4.18)), FITC, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Rat
Published Species	Rat
Host/Isotype	Mouse / IgG3, kappa
Recommended Isotype Control	Mouse IgG3 Isotype Control (B10), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBioG4.18 (G4.18)
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_464878

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	0.5 µg/test	11 Publications

## Product Specific Information

**Description:** The eBioG4.18 monoclonal antibody recognizes the rat CD3 protein. CD3 is a critical component of the T-cell receptor (TCR) and is a marker of the T-cell lineage. CD3 is a complex of several subunits and, upon binding of a TCR ligand, participates in transduction of signals from the TCR to the nucleus which results in a variety of cellular responses including transcription of IL-2 and clonal expansion. in vitro, immobilized G4.18 monoclonal antibody has been demonstrated to activate T cells, while soluble G4.18 inhibited allogeneic mixed-lymphocyte proliferative responses and cell-mediated cytotoxicity to allogeneic target cells. in vivo, G4.18 was demonstrated to induce long-term specific tolerance to an organ allograft.

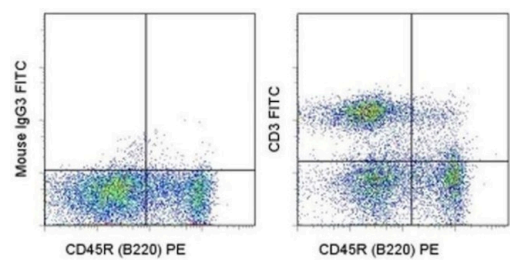
**Applications Reported:** This eBioG4.18 (G4.18) antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This eBioG4.18 (G4.18) antibody has been tested by flow cytometric analysis of rat 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 nm; **Emission:** 520 nm; **Laser:** Blue Laser.

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

Product Images For CD3 Monoclonal Antibody (eBioG4.18 (G4.18)), FITC, eBioscience™



**CD3 Antibody (11-0030-82) in Flow**  
Staining of rat splenocytes with Anti-Rat CD45R (B220) PE (Product # 12-0460-82) and 0.25 µg of Mouse IgG3 Isotype Control FITC (Product # 11-4742-42) (left) or 0.25 µg of Anti-Rat CD3 FITC (right). Cells in the lymphocyte gate were used for analysis.

View more figures on [thermofisher.com](https://thermofisher.com)

12 References

Immunohistochemistry (1)

<p><b>PloS one</b></p> <p><b>Molecular pathology of murine ureteritis causing obstructive uropathy with hydronephrosis.</b></p> <p>"Published figure using CD3 monoclonal antibody (Product # 11-0030-82) in Immunohistochemistry"</p> <p>Authors: Ichii O,Otsuka S,Namiki Y,Hashimoto Y,Kon Y</p>	<p><b>Year</b></p> <p>2012</p>
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Flow Cytometry (11)

<p><b>Evidence-based complementary and alternative medicine : eCAM</b></p> <p><b>Liangxue Tongyu Prescription Alleviates Brain Damage in Acute Intracerebral Hemorrhage Rats by Regulating Intestinal Mucosal Barrier Function.</b></p> <p>"11-0030-82 was used in Flow cytometry/Cell sorting to show that LTP can effectively reduce the degree of brain damage in AICH rats, and the mechanism may be that it can play a neuroprotective role by regulating the function of the intestinal mucosal barrier."</p> <p>Authors: Zhou Y,Zhang Z,Sun Y,Zhou D,Zhao Y,Li J,Guo W</p>	<p><b>Year</b></p> <p>2023</p> <p><b>Species</b></p> <p>Rat</p>
<p><b>Journal of inflammation research</b></p> <p><b>Qing-Luo-Yin Alleviated Experimental Arthritis in Rats by Disrupting Immune Feedback Between Inflammatory T Cells and Monocytes: Key Evidences from Its Effects on Immune Cell Phenotypes.</b></p> <p>"11-0030-82 was used in Flow Cytometry to investigate the changes in CD4+ T cells and monocytes in Qing-Luo-Yin-treated rheumatoid arthritis animal models."</p> <p>Authors: Wang DD,Wu XY,Dong JY,Cheng XP,Gu SF,Olatunji OJ,Li Y,Zuo J</p>	<p><b>Year</b></p> <p>2022</p> <p><b>Species</b></p> <p>Rat</p>

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