



CD3 Monoclonal Antibody (eBioG4.18 (G4.18)), Functional Grade, eBioscience™

Product Details	
Size	500 μg
Species Reactivity	Rat
Published Species	Rat, Mouse
Host/Isotype	Mouse / IgG3, kappa
Class	Monoclonal
Туре	Antibody
Clone	eBioG4.18 (G4.18)
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage conditions	4° C
RRID	AB_468845

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	Assay-Dependent	1 Publication
Flow Cytometry (Flow)	0.5 μg/test	6 Publications
Functional Assay (FN)	Assay-Dependent	3 Publications
T-Cell Activation (TCA)	-	1 Publication

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, immunoblotting (WB), and immunohistochemical staining. The eBioG4.18 antibody has also been used in functional assays.

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 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Storage and handling: Use in a sterile environment.

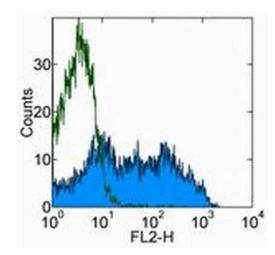
Filtration: 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

Endotoxin Level: Less than 0.001 ng/µg antibody, as determined by LAL assay.

Aggregation: Less than 10%, as determined by HPLC.

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



CD3 Antibody (16-0030-85) in Flow

Staining of rat splenocytes with 0.25 μ g of Mouse IgG3 Isotype Control Purified (Product # 14-4742-82) (open histogram) or 0.25 μ g of Anti-Rat CD3 Functional Grade Purified (filled histogram) followed by Anti-Mouse IgG Biotin (Product # 13-4013-85)and Streptavidin PE (Product # 12-4317-87). Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.cn

□ 11 References

Immunohistochemistry (1)

PloS one

Molecular pathology of murine ureteritis causing obstructive uropathy with hydronephrosis.

Year 2012

"Published figure using CD3 monoclonal antibody (Product # 16-0030-85) in Immunohistochemistry" Authors: Ichii O,Otsuka S,Namiki Y,Hashimoto Y,Kon Y

Flow Cytometry (6)

Journal of inflammation research

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.

"Published figure using CD3 monoclonal antibody (Product # 16-0030-85) in Flow Cytometry" Authors: Wang DD,Wu XY,Dong JY,Cheng XP,Gu SF,Olatunji OJ,Li Y,Zuo J

Year 2022

Frontiers in immunology

Disruption of Tfh:B Cell Interactions Prevents Antibody-Mediated Rejection in a Kidney Transplant Model in Rats: Impact of Calcineurin Inhibitor Dose.

"Published figure using CD3 monoclonal antibody (Product # 16-0030-85) in Flow Cytometry"

Authors: Steines L,Poth H,Schuster A,Amann K,Banas B,Bergler T

Year 2021

View more Flow references on thermofisher.cn

Functional Assay (3)

Frontiers in immunology

M1 Macrophage Derived Exosomes Aggravate Experimental Autoimmune Neuritis via Modulating Th1 Response.

"16-0030 was used in a functional assay to determine the effects of macrophage derived exosomes on the development of EAN in Lewis rats."

Authors: Du T, Yang CL, Ge MR, Liu Y, Zhang P, Li H, Li XL, Li T, Liu YD, Dou YC, Yang B, Duan RS

Year 2021

Species Rat

View more FN references on thermofisher.cn

More applications with references on thermofisher.cn

TCA (1)

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