

TruStain FcX™ PLUS (Human IgG4 anti-mouse CD16/32) Recombinant Antibody

Catalog# / Size	163403 / 50 µg 163404 / 500 µg
Clone	QA19A30
Regulatory Status	RUO
Other Names	CD16, CD32
Isotype	Human IgG4, κ
Description	CD16 is the low affinity IgG Fc receptor III (FcR III) and CD32 is FcR II. CD16/CD32 are expressed on B cells, monocytes/macrophages, NK cells, granulocytes, mast cells, and dendritic cells. The Fc receptors bind antibody-antigen immune complexes and mediate adaptive immune responses. TruStain FcX™ PLUS (Human IgG4 anti-mouse CD16/32) is specific to the common epitope of CD16/CD32. It is useful for blocking non-specific binding of immunoglobulin to the Fc receptors and is more effective than TruStain FcX™.

Product Details

Verified Reactivity	Mouse
Antibody Type	Recombinant
Host Species	Human
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography.
Concentration	0.5 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	FC - Quality tested
Recommended Usage	For blocking of Fc receptors in flow cytometric analysis, pre-incubate the cells with TruStain FcX™ PLUS (Human IgG4 anti-mouse CD16/32) for 5 - 10 minutes, on ice, at 0.25 µg per 10 ⁶ cells in a volume of 100 µL, prior to immunostaining. It is not necessary to wash the cells between the blocking and immunostaining steps.
Product Citations	1. Xu H, <i>et al.</i> 2023. J Biomed Res. 340:37. PubMed
RRID	AB_2922498 (BioLegend Cat. No. 163403) AB_2922498 (BioLegend Cat. No. 163404)

Antigen Details

Structure	Ig superfamily, 40-60 kD
Distribution	B cells, monocyte/macrophages, NK cells, neutrophils, mast cells, dendritic cells
Ligand/Receptor	IgG
Cell Type	B cells, Dendritic cells, Macrophages, Mast cells, Monocytes, Neutrophils, NK cells
Biology Area	Immunology

Molecular Family CD Molecules, Fc Receptors

Gene ID [14130](#)

[14131](#)

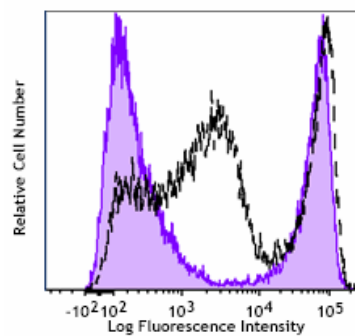
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

TruStain FcX™ PLUS (Human IgG4 anti-mouse CD16/32) Recombinant Antibody

Product Data



C57BL/6 splenocytes were incubated with TruStain FcX™ PLUS (Human IgG4 anti-mouse CD16/32) recombinant (clone QA19A30) (filled histogram) ($0.25\mu\text{g}/10^6$ cells, filled histogram) to block the Fc receptors, or were left untreated (black line histogram), then stained with anti-mouse CD90.2 (Thy1.2) FITC. Note the high background staining in the untreated cells.

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