

## TruStain FcX™ PLUS (anti-mouse CD16/32) Antibody

<b>Catalog# / Size</b>	156603 / 50 µg 156604 / 500 µg
<b>Clone</b>	S17011E
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	CD16, CD32
<b>Isotype</b>	Rat IgG2b, κ
<b>Description</b>	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 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

<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Purity</b>	The antibody was purified by affinity chromatography.
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Concentration</b>	0.5 mg/ml
<b>Storage &amp; Handling</b>	The CD16/32 antibody solution should be stored undiluted between 2°C and 8°C.
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	For blocking of Fc receptors in flow cytometric analysis, pre-incubate the cells with TruStain FcX™ PLUS for 5-10 minutes, on ice, at 0.25 µg per 10 <sup>6</sup> cells in a volume of 100 µl, prior to immunostaining. It is not necessary to wash the cells between the blocking and immunostaining steps.
<b>Application Notes</b>	Clone S17011E blocks both clone 93 and 2.4G2 also raised against mouse CD16/32
<b>Product Citations</b>	<ol style="list-style-type: none"> <li>Zhou J, <i>et al.</i> 2021. J Immunother Cancer. 9:. <a href="#">PubMed</a></li> <li>Driscoll J, <i>et al.</i> 2021. Curr Protoc. 1:e249. <a href="#">PubMed</a></li> <li>Fu R, <i>et al.</i> 2020. Sci Rep. 10:1455. <a href="#">PubMed</a></li> <li>Bian L, <i>et al.</i> 2022. Front Immunol. 13:938598. <a href="#">PubMed</a></li> <li>Thomas AM, <i>et al.</i> 2022. J Neuroinflammation. 19:130. <a href="#">PubMed</a></li> <li>Uzhachenko RV, <i>et al.</i> 2021. Cell Reports. 35(1):108944. <a href="#">PubMed</a></li> <li>Rodriguez-García A, <i>et al.</i> 2021. Nat Commun. 12:877. <a href="#">PubMed</a></li> <li>Toomer G, <i>et al.</i> 2022. Viruses. 14:. <a href="#">PubMed</a></li> <li>Oliva Chávez AS, <i>et al.</i> 2021. Nat Commun. 12:3696. <a href="#">PubMed</a></li> <li>Music A, <i>et al.</i> 2022. Front Cell Dev Biol. 10:987148. <a href="#">PubMed</a></li> <li>Kienzl M, <i>et al.</i> 2020. Oncoimmunology. 9:1776059. <a href="#">PubMed</a></li> <li>Westphal A, <i>et al.</i> 2017. J Exp Med. 214:227. <a href="#">PubMed</a></li> <li>Geng T, <i>et al.</i> 2022. Methods Mol Biol. 2585:71. <a href="#">PubMed</a></li> <li>Chen X, <i>et al.</i> 2022. J Appl Oral Sci. 30:e20220316. <a href="#">PubMed</a></li> <li>Ikeda S, <i>et al.</i> 2022. Sci Rep. 12:11564. <a href="#">PubMed</a></li> <li>Thinard R, <i>et al.</i> 2022. Pharmaceutics. 14:. <a href="#">PubMed</a></li> <li>So EY, <i>et al.</i> 2021. Am J Physiol Cell Physiol. 321:C569. <a href="#">PubMed</a></li> <li>Wang JC, <i>et al.</i> 2022. Elife. 11:. <a href="#">PubMed</a></li> <li>Zeng W, <i>et al.</i> 2021. STAR Protocols. 2(1):100361. <a href="#">PubMed</a></li> <li>Oguri Y, <i>et al.</i> 2020. Cell. 182(3):563-577.e20. <a href="#">PubMed</a></li> <li>Dong L, <i>et al.</i> 2022. Cells. 11:. <a href="#">PubMed</a></li> <li>Pathania AS, <i>et al.</i> 2022. Mol Ther Oncolytics. 25:308. <a href="#">PubMed</a></li> </ol>

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**RRID** AB\_2783137 (BioLegend Cat. No. 156603)  
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## Antigen Details

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<b>Structure</b>	Ig superfamily, 40-60 kD
<b>Distribution</b>	B cells, monocyte/macrophages, NK cells, neutrophils, mast cells, dendritic cells
<b>Ligand/Receptor</b>	IgG
<b>Cell Type</b>	B cells, Dendritic cells, Macrophages, Mast cells, Monocytes, Neutrophils, NK cells
<b>Biology Area</b>	Immunology
<b>Molecular Family</b>	CD Molecules, Fc Receptors
<b>Gene ID</b>	<a href="#">14130</a> <a href="#">14131</a>

## Related Protocols

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[Cell Surface Flow Cytometry Staining Protocol](#)

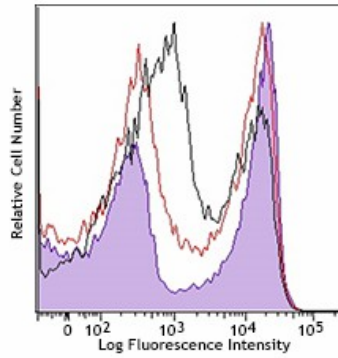
## Other Formats

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TruStain FcX™ PLUS (anti-mouse CD16/32), APC/Cyanine7 anti-mouse CD16/32, PE/Cyanine7 anti-mouse CD16/32, PE anti-mouse CD16/32, APC anti-mouse CD16/32, FITC anti-mouse CD16/32 Antibody, PE/Dazzle™ 594 anti-mouse CD16/32 Antibody, PerCP/Cyanine5.5 anti-mouse CD16/32 Antibody, PE/Cyanine5 anti-mouse CD16/32, Alexa Fluor® 700 anti-mouse CD16/32, APC/Fire™ 750 anti-mouse CD16/32

## Product Data

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BALB/c splenocytes were incubated with TruStain FcX™ PLUS (clone S17011E, 0.25µg/10<sup>6</sup> cells, filled histogram) or TruStain FcX™ (clone 93, 1µg/10<sup>6</sup> cells, red line histogram) to block the Fc receptors, or were left untreated (black line histogram); then stained with CD90.2 (Thy-1.2, clone 53-2.1) FITC. Note the high background in the untreated cells and the bigger reduction in the background staining when the cells were incubated with TruStain FcX™ Plus compared to TruStain FcX™.

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