

Purified anti-rat CD11b/c Antibody

Catalog# / Size	201801 / 100 µg
Clone	OX-42
Regulatory Status	RUO
Other Names	Rat C3bi receptor, Rat CR3 complement receptor, ITGAM, ITGAX
Isotype	Mouse IgG2a, κ
Description	The OX-42 antibody reacts with the CR3 complement (C3bi) receptor expressed on monocytes, granulocytes, macrophages, dendritic cells, and NK cells. This antibody appears to recognize a common epitope shared between CD11b and CD11c (integrin α _M and α _X chains). The OX-42 antibody precipitates three polypeptides with apparent molecular weights of 160, 103, and 95 kD, respectively. This antibody has been shown to block the formation of complement-mediated rosettes and leukocyte migration.

Product Details

Reactivity	Rat
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Rat peritoneal macrophages.
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 IHC-F, IP - Reported in the literature, not verified in house
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤ 1.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes	Additional reported applications (for the relevant formats) include: immunohistochemistry of acetone-fixed frozen sections ^{1,2} , immunoprecipitation ³ , <i>in vivo</i> and <i>in vitro</i> blocking of C3bi binding ^{3,4} .
Application References	<ol style="list-style-type: none"> Whiteland JL, <i>et al.</i> 1995. <i>J. Histochem. Cytochem.</i> 43:313. (IHC) Milligan CE, <i>et al.</i> 1991. <i>J. Comp. Neurol.</i> 314:125. (IHC) Robinson AP, <i>et al.</i> 1986. <i>Immunology</i> 57:239. (Block) Issekutz SE, <i>et al.</i> 1992. <i>Immunology</i> 76:655. (Block) Muehlbauer SM, <i>et al.</i> Am. J Pathol. 177:735. (FC) PubMed Thomas RA. <i>et al.</i> 2009. <i>J Pharmacol Toxicol Methods.</i> 60:263. PubMed Takeda Y, <i>et al.</i> 2011. <i>Immunobiology.</i> 216:1094. PubMed Furuhashi K, <i>et al.</i> 2013. <i>J Am Soc Nephrol.</i> PubMed Cheng HY, <i>et al.</i> 2013. <i>Cytotherapy.</i> 1465:608. PubMed
Product Citations	<ol style="list-style-type: none"> Harms AS, <i>et al.</i> 2017. <i>Acta Neuropathol Commun.</i> 0.267361111. PubMed Beetz O, <i>et al.</i> 2019. <i>PLoS One.</i> 14:e0220546. PubMed Ibrahim A, <i>et al.</i> 2011. <i>Diabetes.</i> 60:1122. PubMed
RRID	AB_313989 (BioLegend Cat. No. 201801)

Antigen Details

Structure	Integrin family member
Distribution	Monocytes, granulocytes, macrophages, dendritic cells
Function	Receptor for C3bi
Ligand/Receptor	Complement C3bi
Cell Type	Dendritic cells, Granulocytes, Macrophages, Monocytes
Biology Area	Cell Biology, Complement, Costimulatory Molecules, Immunology, Neuroscience, Neuroscience Cell Markers
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	1. Robinson AP, <i>et al.</i> 1986. <i>Immunology</i> 57:239. 2. Barcaly AN. 1981 <i>Immunology</i> 42:593.
Gene ID	25021 499271

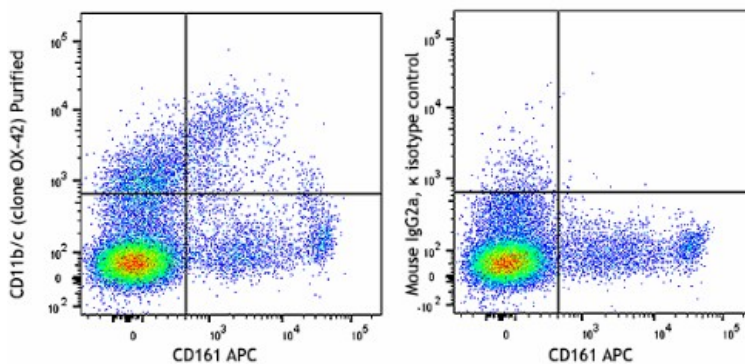
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-rat CD11b/c, FITC anti-rat CD11b/c, PE anti-rat CD11b/c, APC anti-rat CD11b/c, Biotin anti-rat CD11b/c, Alexa Fluor® 488 anti-rat CD11b/c, Alexa Fluor® 647 anti-rat CD11b/c, PerCP/Cyanine5.5 anti-rat CD11b/c, PE/Cyanine7 anti-rat CD11b/c

Product Data



LOU rat splenocytes were stained with APC anti-rat CD161 and anti-rat CD11b/c (clone OX-42) Purified (left) or Mouse IgG2a, κ isotype control (right) followed by FITC anti-mouse IgG.

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