BioLegend
From Revvity

Version: 1 Revision Date: 12/15/2025

Spark PLUS YG581™ anti-mouse/human CD11b Antibody

Catalog# / Size	101266 / 25 µg 101276 / 100 µg
Clone	M1/70
Regulatory Status	RUO
Other Names	αM integrin, Mac-1, Mo1, CR3, Ly-40, C3biR, ITGAM
Isotype	Rat IgG2b, κ
Description	CD11b is a 170 kD glycoprotein also known as αM integrin, Mac-1 α subunit, Mol, CR3, and Ly-40. CD11b is a member of the integrin family, primarily expressed on granulocytes, monocytes/macrophages, dendritic cells, NK cells, and subsets of T and B cells. CD11b non-covalently associates with CD18 (β2 integrin) to form Mac-1. Mac-1 plays an important role in cell-cell interaction by binding its ligands ICAM-1 (CD54), ICAM-2 (CD102), ICAM-4 (CD242), iC3b, and fibrinogen.

Product Details

Verified Reactivity	Mouse, Human, Cynomolgus, Rhesus
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	C57BL/10 splenocytes
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography and conjugated with Spark PLUS YG581™ under optimal conditions.
Concentration	0.2 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. **Do not freeze**.
Application	FC - Quality tested
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 ≤ 0.5 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application. * Spark PLUS YG581™ has a maximum excitation of 562 nm and a maximum emission of 581 nm.
Excitation Laser	Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	Clone M1/70 has been verified for immunocytochemistry (ICC) and frozen immunohistochemistry (IHC-F). Additional reported applications (for relevant formats of this clone) include: immunoprecipitation[1,4], *in vitro* blocking[3,9,12], depletion[2,8], immunofluorescence microscopy[6,7,10], immunohistochemistry of acetone-fixed frozen sections[5,11-13], and spatial biology (IBEX)[35,36]. For *in vivo* studies or highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Endotoxin < 0.01 EU/µg, Azide-Free, 0.2 µm filtered) (Cat. No. 101248).

Application References

(PubMed link indicates BioLegend citation)

1. Springer T, *et al.* 1978. *Eur. J. Immunol.* 8:539. (IP)
2. Ault K and Springer T. 1981. *J. Immunol.* 126:359. (Deplete)
3. Springer TA, *et al.* 1982. *Immunol. Rev.* 68:171. (Block)
4. Ho MK and Springer TA. 1983. *J. Biol. Chem.* 258:2766. (IP)
5. Flotte TJ, *et al.* 1983. *Am. J. Pathol.* 111:112. (IHC)
6. Noel GJ, *et al.* 1990. J. Clin. Invest. 85:208. (IF)
7. Allen LA and Aderem A. 1996. *J. Exp. Med.* 184:627 (IF)
8. D'Amico A and Wu L. 2003. *J. Exp. Med.* 198:293. (Deplete)
9. Brickson SJ, *et al.* 2003. *Appl Physiol.* 95:969. (Block)
10. Clatworthy MR and Smith KG. 2004. *J. Exp. Med.* 199:717. (IF)
11. Hata H, *et al.* 2004. *J. Clin. Invest.* 114:582. (IHC)
12. Zhang Y, *et al.* 2002. *J. Immunol.* 168:3088. (IHC)

See More

Antigen Details

Structure	Integrin family, associates with integrin β_2 (CD18), 170 kD
Distribution	Granulocytes, monocytes/macrophages, dendritic cells, NK cells, subsets of T and B cells
Function	Adhesion, chemotaxis
Ligand/Receptor	ICAM-1 (CD54), ICAM-2 (CD102), ICAM-4 (CD242), iC3b, fibrinogen
Cell Type	B cells, Dendritic cells, Granulocytes, Macrophages, Monocytes, Neutrophils, NK cells, T cells, Tregs
Biology Area	Cell Adhesion, Cell Biology, Costimulatory Molecules, Immunology, Innate Immunity, Neuroscience, Neuroscience Cell Markers
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	1. Barclay A, *et al.* 1997. The Leukocyte Antigen FactsBook Academic Press. 2. Springer TA. 1994. *Cell* 76:301. 3. Coxon A, *et al.* 1996. *Immunity* 5:653.
Gene ID	16409 3684

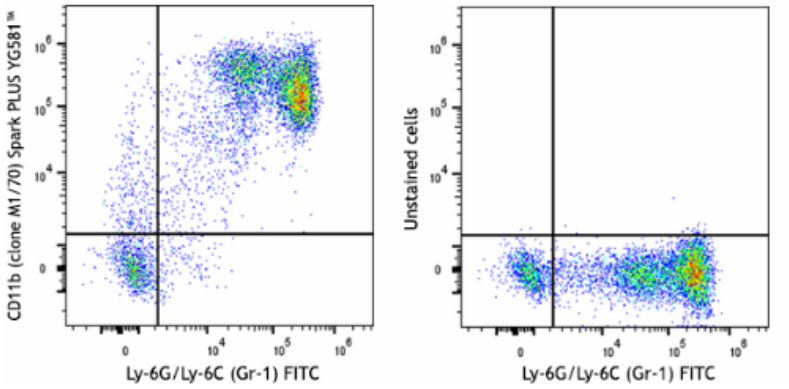
Related Protocols

- Cell Surface Flow Cytometry Staining Protocol

Other Formats

Spark YG™ 593 anti-mouse/human CD11b, Spark YG™ 570 anti-mouse/human CD11b, PE/Fire™ 810 anti-mouse/human CD11b, Spark Blue™ 550 anti-mouse/human CD11b, APC/Fire™ 810 anti-mouse/human CD11b Antibody, Spark UV™ 387 anti-mouse/human CD11b, PerCP/Fire™ 806 anti-mouse/human CD11b, PerCP/Fire™ 780 anti-mouse/human CD11b, Spark Blue™ 574 anti-mouse/human CD11b (Flexi-Fluor™), KIRAVIA Blue 520™ anti-mouse/human CD11b, PE/Fire™ 744 anti-mouse/human CD11b, APC/Fire™ 750 anti-mouse/human CD11b, Brilliant Violet 785™ anti-mouse/human CD11b, Ultra-LEAF™ Purified anti-mouse/human CD11b, Brilliant Violet 570™ anti-mouse/human CD11b, Alexa Fluor® 594 anti-mouse/human CD11b, Spark PLUS UV395™ anti-mouse/human CD11b, Spark Red™ 718 anti-mouse/human CD11b (Flexi-Fluor™), Spark YG™ 581 anti-mouse/human CD11b (Flexi-Fluor™), StarBright UltraViolet 740 anti-mouse/human CD11b, StarBright UltraViolet 575 anti-mouse/human CD11b, Spark PLUS V475™ anti-mouse/human CD11b, Spark PLUS YG581™ anti-mouse/human CD11b, Alexa Fluor® 700 anti-mouse/human CD11b, APC anti-mouse/human CD11b, PE/Cyanine5 anti-mouse/human CD11b, Purified anti-mouse/human CD11b, Pacific Blue™ anti-mouse/human CD11b, TotalSeq™-A0014 anti-mouse/human CD11b, Brilliant Violet 750™ anti-mouse/human CD11b, TotalSeq™-B0014 anti-mouse/human CD11b, TotalSeq™-C0014 anti-mouse/human CD11b, PE/Cyanine7 anti-mouse/human CD11b, Spark NIR™ 685 anti-mouse/human CD11b, Purified anti-mouse/human CD11b (Maxpar® Ready), Alexa Fluor® 647 anti-mouse/human CD11b, Spark PLUS V450™ anti-mouse/human CD11b, PE anti-mouse/human CD11b, PerCP/Cyanine5.5 anti-mouse/human CD11b, PE/Fire™ 640 anti-mouse/human CD11b, Brilliant Violet 421™ anti-mouse/human CD11b, Brilliant Violet 605™ anti-mouse/human CD11b, Brilliant Violet 650™ anti-mouse/human CD11b, Brilliant Violet 711™ anti-mouse/human CD11b, Brilliant Violet 510™ anti-mouse/human CD11b, PE/Dazzle™ 594 anti-mouse/human CD11b, Spark PLUS B550™ anti-mouse/human CD11b, Alexa Fluor® 488 anti-mouse/human CD11b, Biotin anti-mouse/human CD11b, FITC anti-mouse/human CD11b, APC/Cyanine7 anti-mouse/human CD11b, PerCP anti-mouse/human CD11b

Product Data



C57BL/6 mouse bone marrow cells were stained with anti-mouse Ly-6G/Ly-6C (Gr-1) (clone RB6-8C5) FITC and anti-mouse/human CD11b (clone M1/70) Spark PLUS YG581™ (left) or stained with anti-mouse Ly-6G/Ly-6C (Gr-1) (clone RB6-8C5) FITC only (right). Data shown are gated on the myeloid population.

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