

Anti-CD11b [ICRF44] Standard Size Ab01998-10.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors. Developed in partnership with Ximbio (www.ximbio.com).

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Fc Silent™, Kappa

Clone Number: ICRF44

Alternative Name(s) of Target: Integrin alpha-M; CD11 antigen-like family member B; CR-3 alpha chain; Cell surface glycoprotein MAC-1 subunit alpha; Leukocyte adhesion receptor MO1; Neutrophil adherence receptor; mAb 44; mAb44

UniProt Accession Number of Target Protein: P11215

Published Application(s): IP, WB, FC, IHC

Published Species Reactivity: chimpanzee, Pig, Human, Rhesus Monkey, Cynomolgus Monkey

Immunogen: The original mouse IgG1 version of this antibody was raised against the rheumatoid synovial cells and human monocytes.

Specificity: This antibody recognizes CD11b (Integrin alpha-M) which is an adhesion molecule. CD11b associated with integrin beta2 (CD18) is expressed on the surface of monocytes, granulocytes, activated lymphocytes and a subset of NK cells. CD11b is a receptor for intercellular adhesion molecule family members CD54, CD102 and CD50 as well as for iC3b. These adhesions are crucial in cell-cell and cell-matrix interactions.

Application Notes: This antibody is recommended for the detection and analysis of CD11b (Integrin alpha-M) and CD11b-plus cells in lineage identification. The original mouse IgG1 format of this clone has been widely used in various flow cytometry experiments. For instance, ICRF44 was applied in an FC analysis of cells during MDSCs' generation (Eriksson et al., 2019; pmid: 30617223). Another group screened mouse splenocytes with this antibody during tumor studies (Horn et al., 2017; pmid: 28938530). Jardine et al. (2019) utilized this clone to phenotype blood DC cells (pmid: 31040289). Similarly, this antibody was used as a part of a wider panel to phenotype MUTZ-3 and MUTZ-LCs cells (Bock et al., 2016; pmid: 26794428).

Antibody First Published in: Malhotra et al. Ligand binding by the p150,95 antigen of U937 monocytic cells: properties in common with complement receptor type 3 (CR3) Eur J Immunol. 1986 Sep;16(9):1117-23. doi: 10.1002/eji.1830160915.

[PMID:3530784](#)

Note on publication: This article describes the characterization of the ICRF44 antibody (mAb 44).

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.