TECHNICAL DATA SHEET

Purified Anti-Human CD11b (ICRF44)

Catalog Number: 70-0118

PRODUCT INFORMATION

Contents: Purified Anti-Human CD11b (ICRF44)

Isotype: Mouse IgG1, kappa

Concentration: 0.5 mg/mL

Clone: ICRF44

Reactivity: Human

Formulation: 10 mM NaH2PO4, 150 mM NaCl, 0.09% NaN3, pH7.2

DESCRIPTION

The ICRF44 antibody reacts with human CD11b, also known as integrin alpha M. This 165-170 kDa cell surface glycoprotein is part of a family of integrin receptors that mediate adhesion between cells (cell-cell) and components of the extracellular matrix, e.g. fibrinogen (cell-matrix). In addition, integrins are active signaling receptors which recruit leukocytes to inflammatory sites and promote cell activation. Complete, functional integrin receptors consist of distinct combinations of integrin chains which are differentially expressed. Integrin alpha M (CD11b) assembles with Integrin beta-2 (CD18) into a receptor known as Macrophage Antigen-1 (Mac-1) or complement receptor type 3 (CR3). This receptor binds and induces intracellular signaling through ICAM-1, ICAM-2, ICAM-3 and ICAM-4 on endothelial cells and can also facilitate removal of iC3b bearing foreign cells.The ICRF44 antibody is widely used as a marker for CD11b expression on macrophages, granulocytes, and subsets of NK cells. It is reported to be cross-reactive with a number of non-human species including Baboon, Chimpanzee, Cynomolgus, Rhesus and Swine.

PREPARATION & STORAGE

This monoclonal antibody preparation was purified from tissue culture supernatant via affinity chromatography. For In Vivo Ready™ (IVR) products, each preparation is also evaluated for endotoxin levels using the LAL assay. It is recommended to store the product undiluted at 4°C. Do not freeze.

APPLICATION NOTES

This purified format is guaranteed to be >90% pure as determined by SDS-PAGE analysis. Citations are provided as a convenience to you - please consult Materials and Methods sections for additional details about the use of any product in these publications.

REFERENCES

Feng C, Zhang L, Almulki L, Faez S, Whitford M, Hafezi-Moghadam A, and Cross AS. 2011. J. Leukoc. Biol. 90:313-321. (immunoprecipitation)Chang WLW and Barry PA. 2010. Proc. Natl. Acad. Sci. 107:22647-2652. (flow cytometry – Rhesus macaque)Jerke U, Rolle S, Dittmar G, Bayat B, Santoso S, Sporbert A, Luft F, and Kettritz R. 2010. J. Biol. Chem. 286:7070-7081. (in vitro blocking)Moreau A, Hill M, Thebault P, Deschamps JY, Chiffoleau E, Chauveau C, Moullier P, Anegon I, Alliot-Licht B, and Cuturi MC. 2009. FASEB J. 23:3070-3077. (flow cytometry – cynomolgus macaque)Sengoku K, Takuma N, Miyamoto T, Horikawa M, and Ishikawa M. 2004. Hum. Reprod. 19: 639-644. (immunofluorescence microscopy)David A, Kacher Y, Specks U, and Aviram I. 2003. J. Leukoc. Biol. 74:551-557. (western blot)Rezzonico R, Imbert V, Chicheportiche R, and Dayer J-M. 2001. Blood. 97: 2932-2940. (in vitro activation)

NOTE: Please choose the appropriate format for each application. Citations are provided as a convenience to you; please consult Materials and Methods sections for additional details about the use of any product in these publications.