Technical Data Sheet

InVivoMAb anti-mouse CD11b

Attention: Use of this product constitutes an agreement to Bio X Cell's Terms and Conditions which are included with this product in print and can also be found at https://bioxcell.com/terms-and-conditions.

Lot Specific Information

Lot Number: **Lot Specific***
Volume: **Lot Specific***
Concentration: **Lot Specific* (generally 4 to 11 mg/ml) ***
Total Protein: **Lot Specific***

*This information will be noted on the certificate of analysis that ships with this product.

Product Information

Catalog Number:	**BE0428**
Clone:	**5C6**
Isotype:	Rat IgG2b, κ
Recommended Isotype Control(s):	InVivoMAb rat IgG2b isotype control, anti-keyhole limpet hemocyanin
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Immunogen:	Thioglycollate-elicited Peritoneal Macrophages (TPM) from Mouse
Reported Applications:	*in vivo* CD11b neutralization *in vitro* CD11b neutralization Flow cytometry Immunofluorescence Immunohistochemistry Immunoprecipitation
Formulation:	PBS, pH 7.0 Contains no stabilizers or preservatives
Endotoxin:	≤1EU/mg (≤0.001EU/μg) Determined by LAL gel clotting assay
Purity:	≥95% Determined by SDS-PAGE
Sterility:	0.2 μm filtered
Production:	Purified from cell culture supernatant in an animal-free facility
Purification:	Protein G
RRID:	
Molecular Weight:	150 kDa

Description

The 5C6 monoclonal antibody reacts with CD11b, which is also known as Integrin alpha-M (Itgam), CR-3 alpha chain, cell surface glycoprotein MAC-1 subunit alpha, and leukocyte adhesion receptor MO1. The 5C6 antibody is commonly used as a marker of macrophages as well as microglial cells. CD11b is a single-pass type I membrane protein, and it is expressed on the surface of macrophages, monocytes, granulocytes (neutrophils, eosinophils, and basophils), activated lymphocytes, a subset of natural killer cells/dendritic cells, and cerebral microglia in mice. CD11b has a predicted molecular weight of 127.5 kDa however, because of the presence of other isoforms and post-translational modifications (glycosylation and disulfide bond formation), this protein often runs at a higher molecular weight (~165–170 kDa) in SDS-PAGE. CD11b has more than 100 reported ligands, and it is known to interact with ICAM1/CD54, ICAM2/CD102, ICAM4/CD242, LRP1, CD40L, THY1/CD90, Vcam, Itgal/CD11a, CD14, CD23, JAM-C, Complement C3c alpha' chain fragment 1, heparin, fibrinogen, plasminogen, vitronectin, factor X, etc. In association with beta-chain CD18 (Itgb2), the alpha-chain CD11b (Itgam) forms a heterodimeric receptor (CD11b/CD18) that modulates the processes of cell adhesion, migration, and leukocyte signaling to regulate phagocytosis, inflammatory damage, and tissue repair. The 5C6 antibody is CD11b blocking antibody and has been extensively cited for in vitro inhibition of myelomonocytic cell adhesion and in vivo inhibition of inflammatory cell

recruitment.

Storage

Store at the stock concentration at 4°C . **Do not freeze.**
It is not uncommon for a floccule or precipitate to appear during storage. The floccule is typically buffer salts precipitating out of solution or a small bit of protein aggregation. For information on how to remove floccules or precipitates see our FAQ's at https://bioxcell.com/faqs.

Protocol Information

Since applications vary, each investigator should use the application references as a guide to help estimate the appropriate dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

Application References

For a complete list of references, visit https://bioxcell.com/be0428?bxcs=9k1b3a#tab_references or scan the QR code below.

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