Rat Anti-Mouse CD11b

Overview

Clone: M1/70  
Isotype: Rat (Dark Agouti) IgG2b  
Immunogen: C57BL/10 mouse splenic T cells and concanavalin A-activated C57BL/10 splenocytes  
Specificity: Mouse/Human/Rhesus/Baboon/Rabbit CD11b; Mr 170 kDa  
Alternate Name(s): Integrin αM, Mac-1α, Mac-1, Mo1, CR3, C3biR

Description

CD11b, the integrin αM subunit, combines with CD18, the integrin β2 subunit, to form the integrin Mac-1, also known as complement receptor 3 (CR3), which mediates adhesion to C3bi and ICAM-1/CD54. Mac-1 is expressed at varying levels on granulocytes, macrophages, dendritic cells, NK cells, and B-1 cells in the peritoneal and pleural cavities. Mac-1 expression is rapidly up-regulated on neutrophils after activation and in the same time period that CD62L is shed from the cell surface. In addition to its role in binding C3bi on opsonized targets and mediation of the subsequent ingestion process, Mac-1 is important as an adhesion molecule in the transendothelial migration of monocytes and neutrophils. Cross-reaction of M1/70 to human CD11b has been observed on monocytes, polymorphonuclear leukocytes, and NK cells.

Applications

FC – Quality tested  
IHC-FS – Reported in literature  
IHC-PS – Reported in literature  
ICC – Reported in literature  
IP – Reported in literature  
Block – Reported in literature

Working Dilutions

Flow Cytometry

- Purified (UNLB) antibody: ≤ 1 µg/10⁶ cells  
- FITC, BIOT, and AF488 conjugates: ≤ 1 µg/10⁶ cells  
- PE, APC, SPRD, CY5, PE/CY7, APC/CY7, PACBLU, AF647 and AF700 conjugates: ≤ 0.3 µg/10⁶ cells  

For flow cytometry, the suggested use of these reagents is in a final volume of 100 µL

Other Applications

Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.
Handling and Storage

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. **No preservatives or amine-containing buffer salts added.** Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg or 0.1 mg in 1.0 mL of PBS/NaNo₃. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaNo₃. Store at 2-8°C.
- The R-phycocerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL or 0.2 mg in 2.0 mL of PBS/NaNo₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The allopheocyanin (ACP) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaNo₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Spectral Red® (SPRD), R-phycocerythrin-Cyanine 7 (PE/CY7), and allopheocyanin-Cyanine 7 (ACP/CY7) conjugates are supplied as 0.1 mg in 1.0 mL of PBS/NaNo₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of PBS. **Aliquot and store at or below -20°C.**
- The Cyanine 5 (CY5) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaNo₃. Store at 2-8°C.
- The Alexa Fluor® 488 (AF488), Alexa Fluor® 647 (AF647), Alexa Fluor® 700 (AF700), and Pacific Blue™ (PACBLU) conjugates are supplied as 0.1 mg in 0.2 mL of PBS/NaNo₃. Store at 2-8°C.
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific (M)SDS.

References


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