

## Anti-Integrin $\alpha$ -M [107] Bulk Size Ab00473-10.7-BT

This antibody is in our proprietary AbFab2™ recombinant F(ab2) format - based on Human IgG1 sequence with a short dimerization domain to improve stability and a his tag.

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

**Isotype and Format:** Human F(ab)2, AbFab2™ His-Tagged, Kappa

**Clone Number:** 107

**Alternative Name(s) of Target:** CD11b; CD11 antigen-like family member B; CR-3 alpha chain; Cell surface glycoprotein MAC-1 subunit alpha; leukocyte adhesion receptor MO1; Neutrophil adherence receptor; complement receptor 3

**UniProt Accession Number of Target Protein:** P11215

**Published Application(s):** ELISA, FC

**Published Species Reactivity:** Human

**Immunogen:** Wild type (WT) recombinant CD11b.

**Specificity:** This antibody binds to the MIDAS face of the A domain from integrin CD11b.

**Application Notes:** The antibody binds specifically to integrin  $\alpha$ -M, a protein subunit of the  $\alpha$ -M-  $\beta$ -2 molecule, which is expressed on the surface of leukocytes. Integrin  $\alpha$ -M is involved in the adhesive interaction between molecules of the innate immune system, and plays a role in the uptake of complement-coated particles. The monoclonal antibody 107 has a blocking activity by binding to the metal-ion-dependent-adhesion site, favouring a low affinity conformation of the antigen.

**Antibody First Published in:** Li R, Haruta I, Rieu P, Sugimori T, Xiong JP, Arnaout MA. Characterization of a conformationally sensitive murine monoclonal antibody directed to the metal ion-dependent adhesion site face of integrin CD11b. J Immunol. 2002 Feb 1;168(3):1219-25. [PMID:11801658](#)

**Note on publication:** Describes the binding of the murine monoclonal antibody 107 to integrin CD11b. The antibody mimics the binding of divalent cations to the integrin, thereby inhibiting the association of CD11b to 11bA, blocking phagocytosis by human neutrophils.

## Product Form

**Size:** 1 mg Purified antibody in bulk size.

**Purification:**

Purified by Immobilized Metal Affinity Chromatography

**Supplied In:** PBS only.

**Storage Recommendation:** Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. 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.