

Product Datasheet

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Anti-Mouse CD18 [Clone M18/2] — Purified *in vivo* GOLD™ Functional Grade

Hybridoma Monoclonal Antibody

Product Information

Product No.: C2514
Clone: M18/2
Isotype: Rat Rat IgG2a κ

Product Description

Specificity:

M18/2 activity is directed against mouse CD18.

Antigen Distribution:

CD18 is expressed on all leukocytes as well as on myeloid cells.

Background:

Integrins are a large family of α/β heterodimeric transmembrane molecules that mediate adhesion, migration, cell survival, and cell differentiation¹. The leukocytic cell-adhesion molecule (Leu-CAM) family has three members, LFA-1 (CD18/CD11a), CR3 (also known as MAC-1) (CD18/CD11b), and p150,95 (CD18/CD11c), all of which share the β chain CD18². Depending on which molecule CD18 is bound to, this β chain plays important roles in inflammation, initiation of the immune response, phagocytosis, adherence to endothelium, chemotaxis, and can act as a fibrinogen receptor as part of its heterodimer³.

M18/2 was generated by immunizing rat with mouse cytotoxic T cell glycoproteins and fusing the spleen cells with mouse myeloma line P3X63Ag8.653⁴. M18/2 was selected by immunoprecipitation of LFA-1 and found to bind to the β chain of both LFA-1 and MAC-1. M18/2 has subsequently been used to study lymphoma metastasis^{3,5}, myelin phagocytosis⁶, platelet caspases and thrombocytosis⁷, and the immunosuppression of corneal allografts⁸.

Known Reactivity Species:

Mouse

Format:

in vivo GOLD™, Purified *in vivo* Functional Grade

Immunogen:

Mouse CTL glycoprotein

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Formulation

This monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4 with no carrier protein, potassium, calcium or preservatives added. Due to inherent biochemical properties of antibodies, certain products may be prone to precipitation over time. Precipitation may be removed by aseptic centrifugation and/or filtration.

Purity

≥95% monomer by analytical SEC, >95% by SDS Page

Endotoxin

< 1.0 EU/mg as determined by the LAL method

Storage and Stability

Functional grade preclinical antibodies may be stored sterile as received at 2-8°C for up to one month. For longer term storage, aseptically aliquot in working volumes without diluting and store at ≤ -70°C.

Avoid Repeated Freeze Thaw Cycles.

Product Preparation

Functional grade preclinical antibodies are manufactured in an animal free facility using only *in vitro* protein free cell culture techniques and are purified by a multi-step process including the use of protein A or G to assure extremely low levels of endotoxins, leachable protein A or aggregates.

Applications

Applications and Recommended Usage (Quality Tested By Leinco):

WB

Other Applications Reported in Literature:

Block

FC

IHC

IP

Stim

Country of Origin

USA

References

- 1 Luo BH, Carman CV, Springer TA. Annu Rev Immunol. 25:619-647. 2007.
- 2 Sanchez-Madrid F, Nagy JA, Robbins E, et al. J Exp Med. 158(6):1785-1803. 1983.
- 3 Driessens MH, van Hulten P, Zuurbier A, et al. J Leukoc Biol. 60(6):758-765. 1996.
- 4 Sanchez-Madrid F, Simon P, Thompson S, et al. J Exp Med. 158(2):586-602. 1983.
- 5 Zahalka MA, Okon E, Naor D. J Immunol. 150(10):4466-4477. 1993.
- 6 Reichert F, Rotshenker S. Neurobiol Dis. 12(1):65-72. 2003.

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7 Piguet PF, Vesin C. Eur J Haematol. 68(5):253-261. 2002.

8 Hori J, Isobe M, Yamagami S, et al. Exp Eye Res. 65(1):89-98. 1997.

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