



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 



Catalogue

 nordicmubio.com/products/Mouse-anti-CD14/GM-4091-CE_slash_IVD

Mouse anti CD14

Catalog number: **GM-4091-CE/IVD**

Clone	MEM18
Isotype	IgG1
Product Type	Primary Antibodies
Units	0.2 mg
Host	Mouse
Species Reactivity	Human
Application	Flow Cytometry Immunofluorescence

Background

CD14 is a GPI-anchored molecule expressed by virtually all human monocytes and macrophages and – to a lesser degree - granulocytes. CD14 together with Toll-like receptor 4 and MD-2 forms the LPS-receptor complex that recognizes and signals the presence of LPS. While CD14 has no signaling structure its main role seems to be the binding of LPS. The MEM18 antibody permits the identification and enumeration of leukocytes using flow cytometry. MEM18 has been also used for functional studies since this antibody blocks the interaction of LPS with CD14 on monocytes. Results must be put within the context of other diagnostic tests as well as the clinical history of the patient by a certified professional before final interpretation. Analyses performed with this antibody should be paralleled by positive and negative controls. If unexpected results are obtained which cannot be attributed to differences in laboratory procedures, please contact us

Product

Purified mouse monoclonal antibody MEM18 in PBS pH 7.2, 1% BSA, 0.05% NaN3

Specificity

The CD14 mAb (clone MEM18) recognizes surface CD14 on human monocytes and macrophages as well as on neutrophils. The sensitivity of MEM18 mAb is determined by staining well-defined blood samples from representative donors with serial-fold mAb dilutions to obtain a titration curve that allows relating the mAb concentration to the percentage of stained cells and geometric MFI (mean fluorescence intensity). For this purpose, a mAb-concentration range is selected to include both the saturation point (i.e. the mAb dilution expected to bind all epitopes on the target cell) and the detection threshold (i.e. the mAb dilution expected to represent the least amount of mAb needed to detect an identical percentage of cells). In practice, 50 µl of leukocytes containing 10⁷ cells/ml are stained with 20 µl mAb of various dilutions to obtain a titration curve and to identify the saturation point and detection threshold. The final concentration of the product is then adjusted to be at least 3-fold above the detection threshold. In addition and to control lot-to-lot variation, the given lot is compared and adjusted to fluorescence standards with defined intensity.

Applications

Indirect Immunofluorescence (Staining Procedure) - Mix 20 µl Nordic-MUbio purified antibody with 50 µl whole blood or MNC suspension - Incubate for 15 minutes at 2-8°C - Wash cells with phosphate buffered saline (PBS) - Add to cell pellet 20 µl of affinity purified, fluorochrome labeled F(ab')₂ anti mouse Ig antibodies - Incubate for 15 minutes at 2-8°C - Wash cells with phosphate buffered saline (P and analyse by flow cytometry.

Storage

Nordic-MUbio monoclonal antibody reagents contain optimal concentrations of affinity-purified antibody. For stability reasons this monoclonal antibody solution contains sodium azide. These reagents should be stored at 2-8°C (DO NOT FREEZE!) and protected from prolonged exposure to light. If a slight precipitation occurs upon storage, this should be removed by centrifugation. It will not affect the performance or the concentration of the product. Stability of the reagent: Please refer to the expiry date printed onto the vial. The use of the reagent after the expiration date is not recommended.

Caution

When used for in vitro diagnostic purposes results must be put within the context of other diagnostic tests as well as the clinical history of the patient by a certified professional before final interpretation. Analyses performed with this antibody should be paralleled by positive and negative controls. If unexpected results are obtained which cannot be attributed to differences in laboratory procedures, please contact us. This product may contain hazardous ingredients. Please refer to the Safety Data Sheets (SDS) for additional information and proper handling procedures. Dispose product remainders according to local regulations. This datasheet is as accurate as reasonably achievable, but Exalpha Biologicals accepts no liability for any inaccuracies or omissions in this information.

References

1. Beutler, B. (2002) *Curr Top Microbiol Immunol* 270, 109-20.
2. Goyert, S. M. (1989) In *Leukocyte Typing IV* (Oxford University Press, Oxford-New York-Tokyo) p789-793
3. Goyert, S. M., Ferrero, E., Rettig, W. J., Yenamandra, A. K., Obata, F. & Le Beau, M. M. (1988) *Science* 239, 497-500.
4. Goyert, S. M., Ferrero, E. M., Seremetis, S. V., Winchester, R. J., Silver, J. & Mattison, A. C. (1986) *J Immunol* 137, 3909-14.
5. Juan, T. S., Hailman, E., Kelley, M. J., Busse, L. A., Davy, E., Empig, C. J., Narhi, L. O., Wright S. D. & Lichenstein, H. S. (1995) *J Biol Chem* 270, 5219-24.
6. Knapp, W. (1989) In *Leukocyte typing IV* (Oxford University Press, Oxford-New York-Tokyo) p747-780
7. Means, T. K., Lien, E., Yoshimura, A., Wang, S., Golenbock, D. T. & Fenton, M. J. (1999) *J Immunol* 163, 6748-55.
8. Zilberman, M., Goyert, S. M. & Vogel, S. N. (2001) *J Immunol* 166, 574-81.
9. Tapping, R. I., Akashi, S., Miyake, K., Godowski, P. J. & Tobias, P. S. (2000) *J Immunol* 165, 5780-7.
10. Ugolini, V., Nunez, G., Smith, R. G., Stastny, P. & Capra, J. D. (1980) *Proc Natl Acad Sci U S A* 77, 6764-8.
11. Yoshimura, A., Lien, E., Ingalls, R. R., Tuomanen, E., Dziarski, R. & Golenbock, D. (1999) *J Immunol* 163, 1-5.

Warranty

The products sold hereunder are warranted only to conform to the quantity and contents stated on the label at the time of delivery to the customer. There are no warranties, expressed or implied, that extend beyond the description on the label of the product. Exalpha`s sole liability is limited to either replacement of the products or refund of the purchase price. Exalpha is not liable for property damage, personal injury, or economic loss caused by the product.

CE Mark

CE

Safety Datasheet(s) for this product:

NM_Sodium Azide