



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Anti-ManLAM [My2F12] Bulk Size Ab03325-21.0-BT

This antibody does not have a J-chain and therefore presents as a hexamer, rather than a pentamer.

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

**Isotype and Format:** Mouse IgM, Kappa

**Clone Number:** My2F12

**Alternative Name(s) of Target:** Lipoarabinomannan; Lipoarabinomannan carrier protein LprG; 27 kDa lipoprotein; Antigen P27; Lipoprotein LprG; Triacylglyceride transfer protein LprG

**UniProt Accession Number of Target Protein:** P9WK45

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

**Published Species Reactivity:** Mycobacterium bovis, Mycobacterium malmoense, Mycobacterium marinum, Mycobacterium scrofulaceum, Mycobacterium simiae, Mycobacterium tuberculosis, Mycobacterium xenopi

**Immunogen:** The original antibody was isolated from a non-immune human Fab-antibody phage display library by multiple rounds of screening against Mycobacterium tuberculosis mannose-capped lipoarabinomannan (LAM) combined with negative depletion on *M. smegmatis* PILAM.

**Specificity:** This antibody is specific for  $\alpha$ 1-2 linkage of the mannose capped lipoarabinomannan (LAM) of Mycobacterium tuberculosis and is capable of distinguishing ManLAM from two different *M. tuberculosis* strains from PILAM of *M. smegmatis* in sandwich ELISA on both spiked PBS and urine samples. This antibody can only bind mannose oligosaccharides containing the terminal linear  $\alpha$ 1-2 mannose linkages and not mannose oligosaccharides or phosphoinositol mannosides (PIMs) with only  $\alpha$ 1-4 or  $\alpha$ 1-6 mannose linkages or the branched  $\alpha$ 1-2, 6 linkage on hexamannan.

**Application Notes:** This antibody is recommended for detection of *M. tuberculosis* lipoarabinomannan (LAM) using ELISA. The binding affinity of the human IgG1 version of this antibody for mannose capped lipoarabinomannan was found to be  $K_d = 4.38 \times 10^{-10}$  M. This antibody was reported to bind mannose capped LAM of all the slow growing pathogenic Mycobacterium species. This antibody can also be used for the immunofluorescent staining of heat-killed *M. tuberculosis* bacilli fixed by methanol-acetone onto slides. This antibody can be used for the detection of tuberculosis infection via IF sputum smears. This antibody was also used in the detection of mannose capped LAM in TB patient's serum and urine samples (PMID: 25975873).

**Antibody First Published in:** Chan et al. The diagnostic targeting of a carbohydrate virulence factor from

M. tuberculosis. Sci Rep. 2015 May 15;5:10281. [PMID:25975873](#)

**Note on publication:** This paper describes the use of this antibody in the development of a diagnostic assay for detection of mannose capped LAM in patient's urine and serum samples.

## Product Form

**Size:** 500 µg Purified antibody in bulk size.

**Purification:** Affinity Purified using a recombinant lectin column

**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.