

## Anti-LAM [CS-35] Standard Size Ab02211-3.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This reformatted mouse antibody was made using the variable domain sequences of the original Mouse IgG3 format, for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Mouse IgG2b, [Fc Silent™](#), Kappa

**Clone Number:** CS-35

**Alternative Name(s) of Target:** Lipoarabinomannan

**UniProt Accession Number of Target Protein:**

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

**Published Species Reactivity:** *Mycobacterium leprae*, *Mycobacterium tuberculosis*, *Mycobacterium bovis*

**Immunogen:** The original antibody was generated against LAM from *Mycobacterium leprae*.

**Specificity:** This antibody binds lipoarabinomannan and recognizes the common terminal branched saraf-containing arrangement.

**Application Notes:** This antibody has been used as a reference antibody for the characterization of mAbs against LAM and to study a variety of cellular functions, such as the role of LAM in the interaction of mycobacteria with macrophages. This antibody can recognize LAM from *Mycobacterium tuberculosis* strain Erdman and H37Ra and *Mycobacterium bovis* in a western blot assay (Chatterjee et al., 1992; PMID: 1556132) (Prinzis et al., 1993; PMID: 8277248). This antibody was also used for the study of the interaction of LAMs with lymphocytes and monocytes using immunofluorescence assays and flow cytometry (Ilangumaran et al., 1995; PMID: 7636199). Epitope mapping of this antibody was done using ELISA (Kaur et al., 2002; PMID: 12368438). The binding of this antibody to LAM has been thoroughly characterized (Rademacher et al., 2007; PMID: 17672460).

**Antibody First Published in:** Chatterjee et al. Lipoarabinomannan of *Mycobacterium tuberculosis*. Capping with mannosyl residues in some strains. *J Biol Chem.* (1992); 267(9):6234-9. [PMID:1556132](#)

**Note on publication:** Describes the use of this antibody to show the difference in antigenicity of basic LAM and mannose-capped LAM.

## Product Form

**Size:**

200 µg Purified antibody.

**Purification:** Protein A affinity purified

**Supplied In:** PBS with 0.02% Proclin 300.

**Storage Recommendation:** Store at 4°C for up to 3 months. 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.