

12-8337: Anti-Mycobacteria, LAM (MYCO-5936)

Clonality :	Monoclonal
Clone Name :	MYCO-5936
Application :	ELISA
Alternative Name :	LAM, lipoarabinomannan, Mtb, TB, Tuberculosis
Isotype :	Rabbit IgG

Description

Specificity: Anti-Mycobacteria (Clone MYCO-5936) is specific for the lipoarabinomannan of several Mycobacteria species including Mycobacterium tuberculosis (6 strains), M. bovis, M. smegmatis, M. leprae, M. avium, M. phlei, & M. parafortuitum. **Background:** Mycobacterium is a diverse genus of bacteria that includes several pathogenic species responsible for causing diseases in humans, most notably Mycobacterium tuberculosis, the causative agent of tuberculosis (TB). Mycobacteria are characterized by their unique cell wall structure, which contains high levels of mycolic acids, making them resistant to many conventional antibiotics. In addition to M. tuberculosis, other medically important species include Mycobacterium leprae, responsible for leprosy, and Mycobacterium avium complex (MAC), causing opportunistic infections in immunocompromised individuals. Mycobacterium cell walls also contain a glycolipid known as Lipoarabinomannan (LAM), which plays a significant role in pathogenesis. LAM helps the bacteria evade the host immune system and modulate the host's inflammatory response. Additionally, LAM has been used as a diagnostic marker for TB infection, as it can be detected in patient samples such as sputum and urine. Understanding the unique characteristics of Mycobacterium and the role of molecules like LAM is crucial for the development of effective diagnostic tools and therapeutic strategies to combat mycobacterial infections.

Product Info

Amount :	250µg
Purification :	Purity: >=90% Preparation: This monoclonal antibody is purified by protein A chromatography or sequential differential precipitations. Concentration: >=1.0 mg/ml
Content :	Formulation: Formulated in 0.01 M phosphate buffered saline, pH 7.2 and contains 0.1% sodium azide. 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.
Storage condition :	This purified antibody is stable when stored at 2-8°C. Do not freeze.

Application Note

ELISA: 1:20-1:200, IF: 1:10-1:50