

Anti-*Mycobacterium tuberculosis* Ag85
Mouse monoclonal antibody

PRODUCT NO.	HYT 27 (WHO no. IT-49)	Subclass: IgG ₁ /κ												
PRESENTATION	Preparation: Protein-A/G purified Content: Available in 200 µL and 1 mL size. 1 mg/mL +/- 15%. See Certificate of Analysis for details. Solvent: 0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide Storage: 4-8°C without exposure to light. No precautions necessary during handling.	Clone:												
ANTIGEN	Mycobacterium tuberculosis antigen 85 is a complex of three related gene products of 30-31 kDa, Ag85A, B and C. All three proteins show fibronectin binding properties and act as mycolyltransferases involved in the final stages of mycobacterial cell wall assembly.													
IMMUNOGEN	Bacterial press extract from <i>Mycobacterium tuberculosis</i> H37Rv adsorbed onto aluminum hydroxide gel													
SPECIFICITY	HYT 27 is specific for Mycobacterium mycolyltransferase. Reacts with M. tuberculosis Ag85C and M. smegmatis Ag85 homolog protein. No cross-reactivity to antigens from <i>Listeria monocytogenes</i> or <i>Escherichia coli</i> .													
EPI TOPE SPECIFICITY	Epitope is lacking in PPD (culture filtrate, heat treated and precipitated with trichloroacetic acid).													
REACTIVITY	HYT 27 reacts strongly in ELISA with M. tuberculosis cell culture filtrate or whole cells directly coated onto the microtiter wells (1). In Western blotting after SDS-PAGE, HYT 27 reacts strongly with Ag85C and weaker with Ag85A and Ag85B.													
CULTURE MEDIUM	Dulbecco's modified Eagle's medium with 10% fetal calf serum													
FUSION PARTNER	X63-Ag8.653													
IMMUNIZATION	Female CF1 x BALB/c mice immunized by intraperitoneal injection													
APPLICATION	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Method</th> <th style="width: 33%;">Usability</th> <th style="width: 33%;">References</th> </tr> </thead> <tbody> <tr> <td>ELISA</td> <td style="text-align: center;">Yes</td> <td></td> </tr> <tr> <td>Immunoblotting</td> <td style="text-align: center;">Yes</td> <td></td> </tr> <tr> <td>Immunohistochemistry</td> <td style="text-align: center;">Not determined</td> <td></td> </tr> </tbody> </table>		Method	Usability	References	ELISA	Yes		Immunoblotting	Yes		Immunohistochemistry	Not determined	
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REFERENCES	<ol style="list-style-type: none"> 1. Schou C, Yuan ZL, Andersen AB, Bennedsen J (1985) Production and partial characterization of monoclonal hybridoma antibodies to Mycobacterium tuberculosis. Acta Pathol Microbiol Immunol Scand (C) 93:265-272. 2. Andersen AB, Yuan ZL, Haslov K, Vergmann B, Bennedsen J (1986) Interspecies reactivity of five monoclonal antibodies to Mycobacterium tuberculosis as examined by immunoblotting and enzyme-linked immunosorbent assay. J Clin Microbiol 23:446-451. 3. Worsaae A, Ljungqvist L, Heron I (1988) Monoclonal antibodies produced in BALB.B10 mice define new antigenic determinants in culture filtrate preparations of Mycobacterium tuberculosis. J Clin Microbiol 26:2608-2614. 4. Belisle JT, Vissa VD, Sievert T, Takayama K, Brennan PJ, Besra GS (1997) Role of the major antigen of Mycobacterium tuberculosis in cell wall biogenesis. Science 276:1420-22. 5. D'Souza S, Rosseels V, Romano M, Tanghe A, Denis O, Jurion F, Castiglione N, Vanonckelen A, Palfliet K, Huygen K (2003) Mapping of murine Th1 helper T-Cell epitopes of mycolyl transferases Ag85A, Ag85B, and Ag85C from Mycobacterium tuberculosis. Infect Immun 71:483-493. 													

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