

**Anti *Mycobacterium tuberculosis* Ag85
Mouse monoclonal antibody**Subclass: IgG₁/κ

PRODUCT NO.	HYT 27 (WHO no. IT-49)
PRESENTATION	Preparation: Protein-A/G purified Content: Available in 200 µL and 1 mL, 1 mg/mL Solvent: 0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15 mM sodium azide Storage: In the dark at 4-8°C
ANTIGEN	<i>Mycobacterium tuberculosis</i> 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
SPECIFICITY	HYT 27 is specific for <i>Mycobacterium mycolyltransferase</i> . Reacts with <i>M. tuberculosis</i> Ag85C and <i>M. smegmatis</i> Ag85 homolog protein. No crossreactivity to antigens from <i>Listeria monocytogenes</i> or <i>Escherichia coli</i> .
EPITOPE SPECIFICITY	Epitope is lacking in PPD (culture filtrate, heat treated and precipitated with trichloroacetic acid).
REACTIVITY	HYT 27 reacts strongly in ELISA with <i>M. tuberculosis</i> 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 i.p. with immunogen adsorbed onto Al(OH)₃

APPLICATION

Method	Usability	Dilution guideline	References
ELISA	Yes	1:400	
Immunoblotting	Yes		
Immunohistochemistry	Not determined		

The dilution guideline for ELISA is based on use as detection antibody on antigen coated directly onto the microtiter well. Users should determine the optimal dilutions for their own purposes.

REFERENCES

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- 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.
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CONDITIONS

All products are supplied on the understanding that they are for in vitro use only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The animals from which this product was derived have not been exposed to or inoculated with any livestock or poultry disease agents exotic to the United States or Western Europe, and did not originate from facilities where work with exotic disease agents affecting livestock or avian species is carried out.