

Mycobacterial Hsp65 Monoclonal Antibody (3F7)

Product Specifications

Catalog Number:	SPA-881
Source:	Mouse
Species Reactivity:	Human, mouse, rat, bovine, hamster, guinea pig, <i>E. coli</i> , <i>M. leprae</i> , <i>M. bovis</i> and <i>Drosophila</i>
Applications:	WB: 1:1000 (Colorimetric) Other applications not tested. <i>The optimal dilution for a specific application must be determined by the investigator</i>
Predicted M.W.:	~ 65 kDa
Concentration:	n/a
Purification:	Ammonium Sulfate Precipitation
Format:	Ammonium Sulfate Suspension
Storage:	Store at -20 °C <i>Shipping conditions may differ from the recommended storage temperature</i>
Immunogen:	Recombinant protein isolated from <i>M. bovis</i>
Related Products:	
SAB-100	Goat anti-Mouse IgG(Fab) pAb, HRP Conjugate
SPP-610	Recombinant <i>E. coli</i> GroEL Protein
NSP-540	Recombinant Human Hsp60 Protein
NSP-581	Recombinant Mycobacterial Hsp65 Protein

Background:

Hsp65, a 65 kDa protein isolated from *Mycobacterium bovis* BCG, is a member of the hsp60 family of heat shock proteins^{1,2}. Sequence comparison of Hsp65 from different mycobacterium strains showed that the protein sequence of *M. bovis* BCG is identical to that of *M. tuberculosis*, and very similar to that of *M. leprae*, the pathogens that cause tuberculosis and tuberculoid leprosy, respectively^{1,3}. *Mycobacterium bovis* BCG Hsp65 was identified as the immunodominant antigen during mycobacterial diseases and vaccination. It is also believed to be the antigen that induces autoimmune disease, such as adjuvant arthritis in rats⁴.

References:

1. Thole, J.E., *et al.* (1985) *Infect Immuno.* **50**, 800-806.
2. Thole, J.E., *et al.* (1987) *Infect Immuno.* **55**, 1466-1475.
3. Shinnick, T.M., *et al.* (1987) *Infect Immuno.* **55**, 1932-1935.
4. van Eden, W., *et al.* (1988) *Nature* **331**, 171-173.

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