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Product datasheet for AM00984PU-N

groEL2 Mouse Monoclonal Antibody [Clone ID: BDI577]

Product data:

Product Type:	Primary Antibodies
Clone Name:	BDI577
Applications:	ELISA, WB
Recommended Dilution:	ELISA. Western Blot.
Reactivity:	Mycobacteria
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Purified protein derivative (PPD)
Specificity:	This antibody is reactive with Hsp65 (GroEL) of M. tuberculosis. Does not react with M. bovis, M. avium, M. phlei, M. parafortuitum, Rhodococcus sp., B. subtilis, S. pneumoniae, and E. coli.
Formulation:	0.01M PBS, pH 7.2 containing 0.09% Sodium Azide without stabilizing proteins. State: Purified State: Liquid purified Ig fraction (>90% pure)
Concentration:	lot specific
Purification:	Protein A Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Database Link:	P0A520

View online »

Background:

Mycobacterium tuberculosis is the most common cause of tuberculosis. Primary infection begins with inhalation of 1 to 10 aerosolised bacilli. The pathogenicity of the organism is determined by its ability to escape host immune responses as well as eliciting delayed hypersensitivity. Alveolar macrophages engulf the invading cells but are unable to mount an effective defense. Several virulence factors are responsible for this apparent failure; most notably in the mycobacterial cell wall are the cord factor, lipoarabinomannan, and the 65 kd heat shock protein or HSP65.
The emergence of new strains of resistant Mycobacterium tuberculosis has created new interest in clinical diagnosis. Studies have shown immunohistochemical techniques to be superior to conventional special stains. Thus the demonstration of mycobacterial antigens are not only useful in establishing mycobacterial aetiology, but can also be used as an alternative method to the conventional Ziehl-Neelsen method.

Synonyms:

60 kDa chaperonin 2, Protein Cpn60-2, groEL protein 2, Cell wall protein A, Antigen A, groL2, groEL-2, groEL2, hsp65, Rv0440, MT0456, MTV037.04