Datasheet for ABIN2859572

anti-Heat Shock Protein 65 (HSP65) antibody

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Overview

Quantity:	1 mg
Target:	Heat Shock Protein 65 (HSP65)
Reactivity:	Mycobacteria
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	Un-conjugated
Application:	Enzyme Immunoassay (EIA), Western Blotting (WB)

Product Details

Immunogen:	Purified protein derivative (PPD)
Clone:	BDI578
Isotype:	IgG2a
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.
Characteristics:	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
Purification:	Protein A chromatography
Purity:	> 90 % pure

Target Details

Target:	Heat Shock Protein 65 (HSP65)
Alternative Name:	Heat Shock Protein 65 / HSP65
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, Antigen A, Cell wall protein A, MT0456, MTV037.04, Protein Cpn60-2, Rv0440, groEL protein 2, groEL-2, groEL2, groL2, hsp65
Gene ID:	886354
UniProt:	P0A520
Pathways:	Activation of Innate immune Response, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, Production of Molecular Mediator of Immune Response, Positive Regulation of Endopeptidase Activity

Application Details

Application Notes:	ELISA. Western Blot. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Concentration:	0,1 mg/mL (OD280nm, E0.1% = 1.4)
Buffer:	0.01 M PBS, pH 7.2 containing 0.09 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

	should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store the antibody at -20 °C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
Expiry Date:	12 months

