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Datasheet for ABIN1686691 HSPD1 Protein (partial)

1 Image

2 Publications



Overview

Quantity:	100 µg
Target:	HSPD1
Protein Characteristics:	partial
Origin:	Bacteria
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Functional Studies (Func)
Product Details	
Sequence:	EDPYEKIGAE LVKEVAKKTD DVAGDGTTTA TVLAQALVRE GLRNVAAGAN PLGLKRGIEK
	AVEKVTETLL KGAKEVETKE QIAATAAISA GDQSIGDLIA EAMDKVGNEG VITVEESNTF
	GLQLELTEGM RFDKGYISGY FVTDPERQEA VLEDPYILLV SSKVSTVKDL LPLXXXXXX
	GKPLLIIAED VEGEALSTLV
Specificity:	~65 kDa
Purification:	Multi-Step Purified
Purity:	>90%
Target Details	

Target Details

Target:	HSPD1
Abstract:	HSPD1 Products
Background:	HSP65 isolated from Mycobacterium bovis BCG, is a member of the HSP60 family of heat

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	shock proteins (2, 3). HSP60s are mitochondrial chaperonins that are typically held responsible
	for the transportation and refolding of proteins from the cytoplasm into the mitochondrial
	matrix. In addition to its role as a heat shock protein, HSP60 functions as a chaperonin to assist
	in folding linear amino acid chains into their respective three-dimensional structure. HSP60s are
	a ubiquitous class of HSPs that specifically promote the folding and assembly of cellular
	polypeptides in an ATP-dependent manner (1). Specifically, 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 (2,4). 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 rats (5, 6).
Molecular Weight:	approx. 65 kDa
UniProt:	Q1EHB9
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

1.1	
Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	This product has been certified >90% pure using SDS-PAGE analysis.
Restrictions:	For Research Use only
Handling	
Concentration:	Lot specific
Buffer:	10 mM Tris pH 8, 105 mM NaCl, 5 mM EDTA
Storage:	-20 °C
Publications	
Product cited in:	Sun, Shen, Liu, Tan, Tian, Luo, Lai, Dai, Guo: "Heat shock protein 65 promotes atherosclerosis
	through impairing the properties of high density lipoprotein." in: Atherosclerosis, Vol. 237, Issue
	2, pp. 853-61, (2014) (PubMed).

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Images



SDS-PAGE

Image 1. SDS-PAGE of 65 kDa M. Bovis Hsp65 protein (ABIN1686690, ABIN1686691 and ABIN1686692).

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