



HSP 65 (BDI577): sc-57842

BACKGROUND

The heat shock proteins (HSPs), also referred to as molecular chaperones, comprise a group of highly conserved, abundantly expressed proteins with diverse functions, including the assembly and sequestering of multiprotein complexes, transportation of nascent polypeptide chains across cellular membranes and regulation of protein folding. HSP 60s are an ubiquitous class of HSPs that specifically promote the folding and assembly of cellular polypeptides in an ATP-dependent manner. Mycobacterial HSP 65 is a member of the HSP family that has the ability to facilitate the cross-presentation of an exogenous protein by dendritic cells (DCs) to CD8 T cells. HSP 65 has a high degree of sequence homology with mammalian HSP 60. The presence of HSP 65-specific T cells in blood and in atherosclerotic lesions may be a key factor in initiating the development of atherosclerosis and perpetuating the lesions.

REFERENCES

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SOURCE

HSP 65 (BDI577) is a mouse monoclonal antibody raised against purified HSP 65 of *Mycobacterium tuberculosis* origin.

PRODUCT

Each vial contains 100 µg IgG_{2a} in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

HSP 65 (BDI577) is recommended for detection of HSP 65 of *Mycobacterium tuberculosis* origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000); non cross-reactive with *M. bovis*, *M. avium*, *M. phlei*, *M. parafortuitum*, *Rhodococcus* species, *B. subtilis*, *S. pneumoniae* or *E. coli*.

Molecular Weight of HSP 65: 65 kDa.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.