

***Mycobacterium avium* DnaK (HSP70) mouse monoclonal antibody (7D9D7)**

Catalog PODI-0015

Product specification sheet PS-PAb0015

Product description

Mycobacterial HSP70 is the prokaryotic analogue of eukaryotic Hsp70 and is an effective subunit vaccine against bovine paratuberculosis (Koets *et al.*, 2006).

HSP70 belongs to a group of heat shock proteins that assist in the assembly, folding and translocation of other proteins. In addition, they protect the cell against heat injury or other forms of stress. All cells, prokaryotic and eukaryotic, are able to respond to different cellular stresses by synthesizing these proteins. Heat shock proteins are highly conserved, ubiquitously distributed, and involved in important aspects of viral and bacterial infections, autoimmune diseases, and in cancer immunity.

Product type:	Primary antibodies
Clone number:	7D9D7
Immunogen:	HSP70 protein from <i>Mycobacterium avium</i> ssp. paratuberculosis (MAP)
Reacts with:	mycobacterial HSP70 and cross-reactive with <i>E. coli</i> DnaK
Tested applications:	ELISA, WB, IHC, EM (Burt <i>et al.</i> , 2007)
Purity:	Protein G affinity purified, >95%
Isotype:	IgG2a
Light chain type:	Kappa
Storage buffer:	PBS
Form:	Liquid
Concentration:	0.5 mg/ml

Storage and stability

Store at 4 °C, short term (1-2 weeks). For long-term storage, aliquot and keep at or below -20° C. Avoid repeated freeze-thaw cycles

Data

text

References

Burt SA, van der Zee R, Koets AP, de Graaff AM, van Knapen F, Gaastra W, Haagsman HP, Veldhuizen EJ. Carvacrol induces heat shock protein 60 and inhibits synthesis of flagellin in *Escherichia coli* O157:H7. *Appl Environ Microbiol.* 2007 Jul;73(14):4484-90.
Koets A, Hoek A, Langelaar M, Overdijk M, Santema W, Franken P, Eden W, Rutten V. Mycobacterial 70 kD heat-shock protein is an effective subunit vaccine against bovine paratuberculosis. *Vaccine.* 2006 Mar 24;24(14):2550-9.

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