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Monoclonal Antibody to HSP60 - Ascites

Alternate names: 60 kDa chaperonin, 60 kDa heat shock protein mitochondrial, CPN60, Chaperonin 60, GROEL, GroEL Homolog, HSP-60, HSPD1, Heat shock protein 60, HuCHA60, Mitochondrial matrix protein P1, P60 lymphocyte protein

Catalog No.: SM5079

Quantity: 0.1 ml

Background: Heat shock protein 60 (HSP60) is homologous to HSP65 (a major antigenic mycobacterial protein) and E. coli GroEL. HSP60, also referred to as chaperonin-60, P1 and mitonin, has been classified as a member of a family of proteins termed chaperonins which act to recognize and stabilize polypeptide intermediates during folding, assembly and disassembly. HSP60 is an abundant protein which is constitutively expressed and is induced by environmental stress. HSP60 exists as a large oligomer composed of 14 ~60 kDa subunits arranged as two stacked rings. Reacts with Bacteria.

Uniprot ID: P0A6F5

NCBI: AP_004644

GeneID: 948665

Host / Isotype: Mouse / IgG1

Clone: A57-E4

Immunogen: Recombinant Chlamydia trachomatis HSP60.

Format: **State:** Liquid diluted ascites.
Buffer System: PBS containing 0.05% sodium azide as preservative.

Applications: Western Blot: 1/5000, detects a single ~60 kDa protein representing HSP60 from C. trachomatis lysate.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: SM5079 detects heat shock protein 60 kDa (HSP60) from bacteria. This antibody detects HSP60 from all three species of Chlamydia, Escherichia coli (GroEL), Salmonella typhimurium, Neisseria gonorrhoeae and Coxiella burnetti. It does not cross react with HeLa cell HSP60.
Epitope mapping studies suggest that this antibody binds to a linear sequence of 6 amino acids of Chlamydia HSP60 amino acids 117-122.

Storage: Store the antibody at -20°C.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings: 1. Circulation, 90(2): 653-657, 1994.
2. Infection and Immunity. 60(6): 2288-2296, 1992.