

HSPA1L monoclonal antibody

Catalog: MB9280

Host: Mouse

Reactivity: Human, Mouse, Rat

Background:

The heat shock proteins (HSPs) comprise a group of highly conserved, abundantly expressed proteins with diverse functions, including the assembly and sequestering of multi-protein complexes, the transportation of nascent poly-peptide chains across cellular membranes and the regulation of protein folding. The gene is located in the major histocompatibility complex class III region, in a cluster with two closely related genes which also encode isoforms of the 70kDa heat shock protein. HSPA1L (heat shock 70 kDa protein 1L), also known as HSP70T, is a 641 amino acid protein that belongs to the HSP 70 family and, like other HSP proteins, mediates protein folding within the cytosol, as well as within other organelles throughout the cell. HSP proteins, such as HSPA1L, together with chaperones, bind extended peptide segments with a net hydrophobic character exposed during protein translation, membrane translocation or after stress-induced damage. HSPA1L has been found to be expressed in spermatids and is not induced by heat shock.

Product:

Mouse IgG1, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

70 kDa

Swiss-Prot:

P34931 Human;P16627 Mouse;P55063 Rat

Purification&Purity:

Protein G purified.

Applications:

WB:1:500

ICC:1:100

IHC:1:50-1:200

FC:1:50-1:100

Storage&Stability:

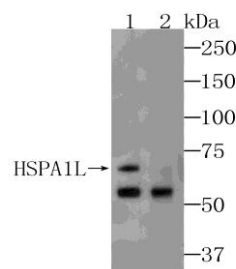
Store at +4 °C after thawing. Aliquot store at -20 °C.

Avoid repeated freeze / thaw cycles.

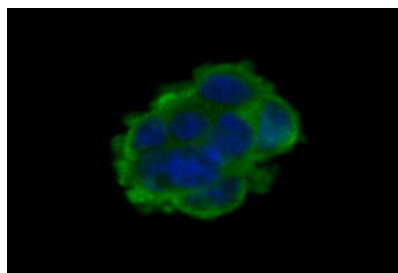
Specificity:

HSPA1L monoclonal antibody detects endogenous levels of HSPA1L protein.

DATA:



Western blot analysis of HSPA1L on A549 cell lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody was used at a 1:500 dilution in 5% BSA at room temperature for 2 hours. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1:5,000 dilution was used for 1 hour at room temperature. Lane 1: Anti-HSPA1L Antibody, (1:500). Lane 2: Anti-HSPA1L Antibody, preincubated with immunization protein.



ICC staining HSPA1L in 293T cells (green). Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature and blocked with 1% Blocker BSA for 15 minutes at room temperature. Cells were probed with HSPA1L monoclonal antibody at a dilution of 1:50 for 1 hour at room temperature, washed with PBS. Alexa Fluor 488 Goat anti-Mouse IgG was used as the secondary antibody at 1/100 dilution. The nuclear counter stain is DAPI (blue).

Note:

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

Bioworld Technology, Inc.

Add: 1660 South Highway 100, Suite 500 St. Louis Park, MN 55416, USA.

Email: info@bioworld.com

Tel: 6123263284

Fax: 6122933841

Bioworld technology, co. Ltd.

Add: No 9, weidi road Qixia District Nanjing, 210046, P. R. China.

Email: info@biogot.com

Tel: 0086-025-68037686

Fax: 0086-025-68035151



PRODUCT DATA SHEET

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Add: 1660 South Highway 100, Suite 500 St. Louis Park,
MN 55416, USA.

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