HSP60
Monoclonal ANTIBODY
Catalog Number: 66041-1-lg

Basic Information

- **Catalog Number:** 66041-1-lg
- **GenBank Accession Number:** BC003030
- **GeneID (NCBI):** 3329
- **Full Name:** heat shock 60kDa protein 1 (chaperonin)
- **Calculated MW:** 61 kDa
- **Observed MW:** 60 kDa
- **Source:** Mouse
- **Isotype:** IgG1

**Recommended Dilutions:**
- **WB:** 1:5000-1:50000
- **IP:** 0.5-4.0 μg for IP and 1:1000-1:4000 for WB
- **IHC:** 1:50-1:2000
- **IF:** 1:50-1:500

**Positive Controls:**
- **WB:** ROS1728 cells, HeLa cells, HEK-293 cells, Jurkat cells, mouse brain tissue
- **IP:** mouse liver tissue,
- **IHC:** human ovary tumor tissue, human skin cancer tissue, human spleen tissue, human tonsillitis tissue, human testis tissue
- **IF:** HepG2 cells

**Purification Method:** Protein A purification

**Clone No.:** 2F10E7

**Purification Method:** Protein A purification

**Applications**

- **Tested Applications:** FC, IF, IHC, IP, WB, ELISA
- **Cited Applications:** IF, WB
- **Species Specificity:** human, mouse, rat
- **Cited Species:** human, rat, swine

**Note:** IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

**Background Information**

HSPD1, also known as HSP60, belongs to the chaperonin family and acts as a chaperone to enhance cell survival under physiological stresses. Hsp60 has been shown to be connected with many aspects of cell functions such as protein folding and assembling of polypeptide chains in mitochondria. Recently, it has been reported that HSP60 is associated with apoptosis or inhibition of cancer cell growth. (21822415)

**Notable Publications**

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jing Geng</td>
<td>26414765</td>
<td>Nat Immunol</td>
<td>WB, IF</td>
<td></td>
</tr>
<tr>
<td>Li Peng</td>
<td>32151250</td>
<td>J Neuroinflammation</td>
<td>IF</td>
<td></td>
</tr>
<tr>
<td>Soumyajit Banerjee Mustafi</td>
<td>28270146</td>
<td>Mol Cancer</td>
<td>WB</td>
<td></td>
</tr>
</tbody>
</table>

**Storage**

- **Store at -20°C. Stable for one year after shipment.**
- **Storage Buffer:** PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
- **Aliquoting is unnecessary for -20°C storage**

For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com

W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 66041-1-lg (HSP60 antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).

Western blot analysis of HSP60 in various tissues and cell lines with 66041-1-lg (HSP60 Antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 66041-1-lg (HSP60 antibody at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 66041-1-lg (HSP60 antibody at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).


1x10^6 HeLa cells were stained with 0.2ug HSP60 antibody (66041-1-lg, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L) with dilution 1:1000.