**Basic Information**

- **Catalog Number:** 60318-1-Ig
- **Size:** 150 μg/150 μl
- **Source:** Mouse
- **Isotype:** IgG2a
- **Purification Method:** Protein A purification
- **Immunogen Catalog Number:** AG3826
- **GenBank Accession Number:** BC023006
- **GeneID (NCBI):** 3320
- **Full Name:** heat shock protein 90kDa alpha (cytosolic), class A member 1
- **Calculated MW:** 853aa, 90 kDa
- **Observed MW:** 85-90 kDa

**Recommended Dilutions:**
- **WB:** 1:1000-1:8000
- **IHC:** 1:50-1:500

**Applications**

- **Tested Applications:** FC, IHC, WB, ELISA
- **Cited Applications:** CoIP, IF, IP, WB
- **Species Specificity:** human, mouse, rat, pig
- **Cited Species:** African green monkey kidney, human, mouse, rat

**Note:** suggested antigen retrieval with TE buffer pH 9.0; alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

**Background Information**

HSP90, encoded by HSP90AA1, is a constitutively and ubiquitously expressed molecular chaperone that is crucial for the stability and function of many proteins. HSP90 provides chaperoning activity for client proteins; many of them are members of oncogenic pathways, indicating its implication in tumor malignancy. HSP90 mainly resides in the cytosol, while it can also be released to the extracellular space. Secreted Hsp90 is a C-terminal truncated form. It has been reported that the level of plasma Hsp90 is positively correlated with tumor malignancy in clinical cancer patients, and can be a promising diagnostic marker for tumor malignancy in clinical application.

**Notable Publications**

<table>
<thead>
<tr>
<th>Author</th>
<th>PubMed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nan Wang</td>
<td>30243156</td>
<td>Eur J Med Chem</td>
<td>WB</td>
</tr>
<tr>
<td>Huiyuan Jing</td>
<td>29123620</td>
<td>Front Immunol</td>
<td>WB</td>
</tr>
<tr>
<td>Xin-Bin Guo</td>
<td>29139175</td>
<td>Stem Cells</td>
<td>IF, CoIP</td>
</tr>
</tbody>
</table>

**Storage**

- **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 (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.
Various cells were subjected to SDS PAGE followed by western blot with 60318-1-Ig (HSP90 Antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.

Immunohistochemistry of paraffin-embedded human ovary tumor tissue slide using 60318-1-Ig (HSP90 Antibody) at dilution of 1:200 (under 10x lens), heat mediated antigen retrieved with Tris-EDTA buffer (pH9).

Immunohistochemistry of paraffin-embedded human ovary tumor tissue slide using 60318-1-Ig (HSP90 Antibody) at dilution of 1:200 (under 40x lens), heat mediated antigen retrieved with Tris-EDTA buffer (pH9).

1X10^6 K-562 cells were stained with 0.2ug HSP90 antibody (60318-1-Ig, 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.