

For Research Use Only

# HSPH1 Monoclonal antibody

Catalog Number: 66723-1-Ig



## Basic Information

<b>Catalog Number:</b> 66723-1-Ig	<b>GenBank Accession Number:</b> BC037553	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul, Concentration: 1700 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 10808	<b>CloneNo.:</b> 3H5A5
<b>Source:</b> Mouse	<b>Full Name:</b> heat shock 105kDa/110kDa protein 1	<b>Recommended Dilutions:</b> WB 1:5000-1:20000 IHC 1:500-1:2000 IF 1:50-1:500
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 858 aa, 97 kDa	
<b>Immunogen Catalog Number:</b> AG27521	<b>Observed MW:</b> 110 kDa	

## Applications

### Tested Applications:

IF, IHC, WB, ELISA

### Species Specificity:

Human, mouse

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

### Positive Controls:

WB : HeLa cells, HEK-293 cells, MCF-7 cells, Jurkat cells

IHC : mouse testis tissue,

IF : HeLa cells,

## Background Information

HSP105, also known as HSP110 or HSPH1, belongs to the heat shock protein (HSP) family. Human HSP105 is a high-molecular-weight chaperone protein expressed at constitutively low levels as a cytoplasmic  $\alpha$ -isoform and as an inducible nuclear  $\beta$ -isoform on exposure to various forms of stress. HSP105 is constitutively overexpressed in several solid tumors, including melanoma, breast, thyroid, and gastroenteric cancers, and exerts antiapoptotic functions. Recently HSP105 has been identified as a novel candidate biomarker of lymphoma aggressiveness. Western blot analysis using this antibody detected the phosphorylated protein around 110 kDa in various lysates.

## 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

\*\*\* 20ul sizes contain 0.1% BSA

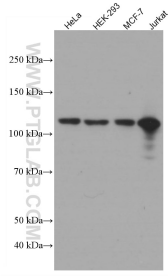
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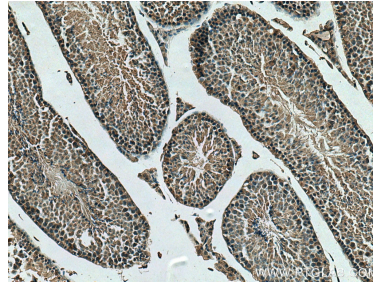
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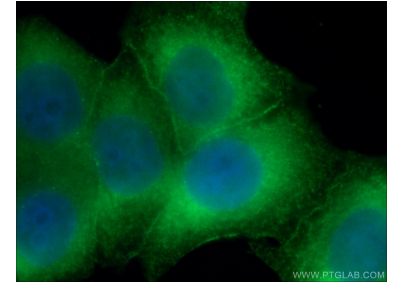
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66723-1-Ig (HSPH1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 66723-1-Ig (HSPH1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 66723-1-Ig (HSPH1 antibody) at dilution of 1:100 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).