

For Research Use Only

# HSPA2 Recombinant antibody

Catalog Number: 83466-1-RR **Featured Product**



## Basic Information

<b>Catalog Number:</b> 83466-1-RR	<b>GenBank Accession Number:</b> BC036107	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3306	<b>CloneNo.:</b> 240421A2
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P54652	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:250-1:1000
<b>Isotype:</b> IgG	<b>Full Name:</b> heat shock 70kDa protein 2	
<b>Immunogen Catalog Number:</b> AG3539	<b>Calculated MW:</b> 639 aa, 70 kDa	
	<b>Observed MW:</b> 70 kDa	

## Applications

**Tested Applications:**  
WB, IHC, 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, A431 cells, A549 cells, HaCaT cells,  
NIH/3T3 cells, human kidney tissue

**IHC :** mouse testis tissue,

## Background Information

Human HSPA2 is a member of the HSPA (HSP70) family of heat-shock proteins, encoded by the gene originally described as testis-specific. Recently, it has been reported that HSPA2 can be also expressed in human somatic tissues in a cell-type specific manner. HSPA2 is a cytosol/nuclear protein able to translocate between cytoplasm and nucleus. At physiological temperature, the HSPA2 was localized primarily in cytoplasm whereas, during heat shock, localization shifted to nucleus and nucleoli (PMID: 18452162). HSPA2 is involved in sperm maturity, function and fertility. Aberrant expression of HSPA2 in testes has been connected with male infertility. Recently, HSPA2 has attracted increased interest due to its possible involvement in carcinogenesis of non-testicular tissues. This antibody well recognized the endogenous HSPA2 protein in testis and multiple cell lines. (21373891)

## Storage

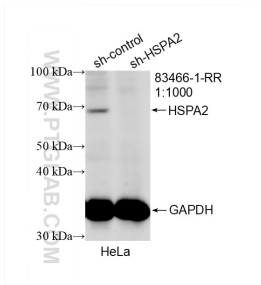
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

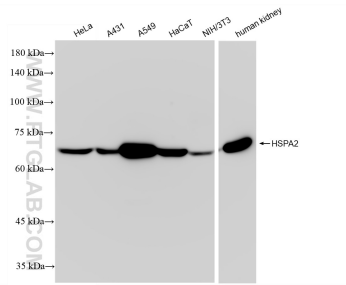
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

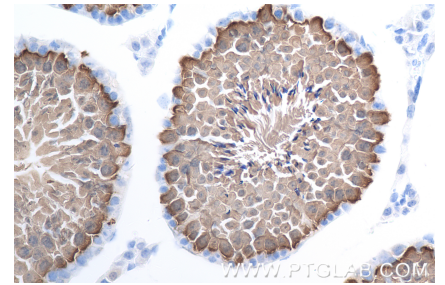
## Selected Validation Data



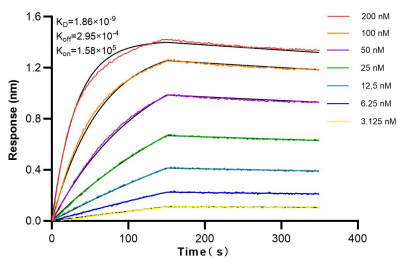
WB result of HSPA2 antibody (83466-1-RR; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-HSPA2 transfected HeLa cells.



Various lysates were subjected to SDS PAGE followed by western blot with 83466-1-RR (HSPA2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 83466-1-RR (HSPA2 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 83466-1-RR against Human HSPA2 were performed. The affinity constant is 1.86 nM.