

For Research Use Only

# HSPA2 Monoclonal antibody, PBS Only



Catalog Number: 66291-1-PBS

## Basic Information

<b>Catalog Number:</b> 66291-1-PBS	<b>GenBank Accession Number:</b> BC036107	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3306	<b>CloneNo.:</b> 1A4A9
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P54652	
<b>Isotype:</b> IgG1	<b>Full Name:</b> heat shock 70kDa protein 2	
<b>Immunogen Catalog Number:</b> AG24228	<b>Calculated MW:</b> 639 aa, 70 kDa	
	<b>Observed MW:</b> 70 kDa	

## Applications

**Tested Applications:**  
WB, IHC, Indirect ELISA

**Species Specificity:**  
human, rat, mouse

## 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. 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

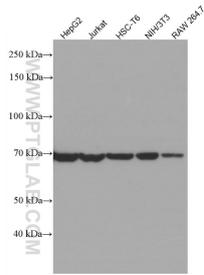
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

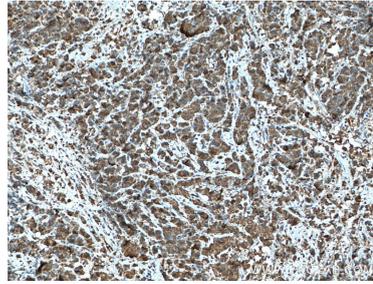
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)      E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

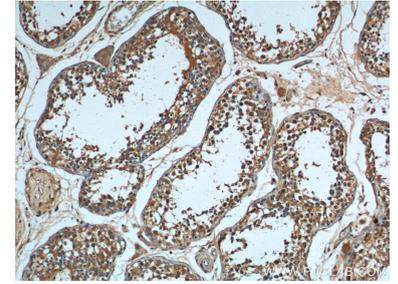
## Selected Validation Data



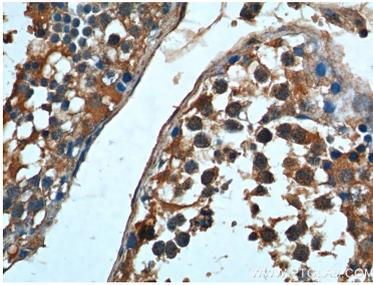
Various lysates (25 µg/lane) were subjected to SDS PAGE followed by western blot with 66291-1-Ig (HSPA2 antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66291-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 66291-1-Ig (HSPA2 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66291-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 66291-1-Ig (HSPA2 Antibody) at dilution of 1:200 (under 10x lens). This data was developed using the same antibody clone with 66291-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 66291-1-Ig (HSPA2 Antibody) at dilution of 1:200 (under 40x lens). This data was developed using the same antibody clone with 66291-1-PBS in a different storage buffer formulation.