

# HSPA2 Polyclonal antibody

Catalog Number: 12797-1-AP

Featured Product

11 Publications

## Basic Information

**Catalog Number:**

12797-1-AP

**Size:**

300 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG3539

**GenBank Accession Number:**

BC036107

**GeneID (NCBI):**

3306

**UNIPROT ID:**

P54652

**Full Name:**

heat shock 70kDa protein 2

**Calculated MW:**

639 aa, 70 kDa

**Observed MW:**

70 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:2000-1:5000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

## Applications

**Tested Applications:**

FC, IHC, IP, WB, ELISA

**Cited Applications:**

WB, IP, IF, IHC

**Species Specificity:**

human, mouse, rat

**Cited Species:**

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:** A431 cells, human brain tissue, human kidney tissue, human skeletal muscle tissue, HeLa cells, Jurkat cells, MCF-7 cells, NIH/3T3 cells, C6 cells, mouse skeletal tissue

**IP:** mouse skeletal muscle tissue,

**IHC:** human testis tissue, human prostate hyperplasia tissue, human ovary tumor tissue, mouse ovary 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. 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)

## Notable Publications

Author	Pubmed ID	Journal	Application
Jianjun Hu	29161344	Biol Reprod	IF
Liuze Gao	33177084	Sci Adv	IF
Long Jiang	28502657	Curr Biol	WB

## 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:

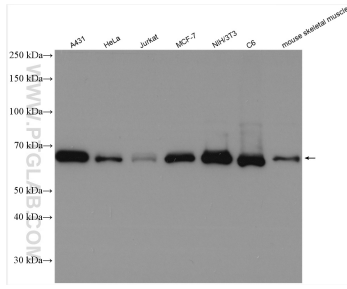
T: 4006900926

E: Proteintech-CN@ptglab.com

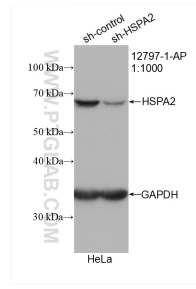
W: ptgcn.com

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

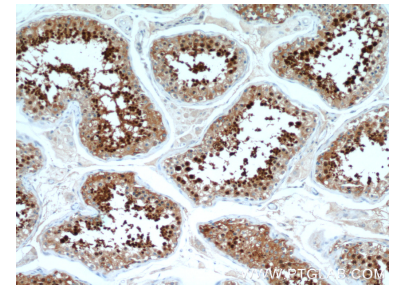
## Selected Validation Data



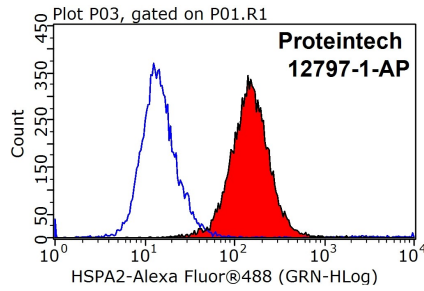
Various lysates were subjected to SDS PAGE followed by western blot with 12797-1-AP (HSPA2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



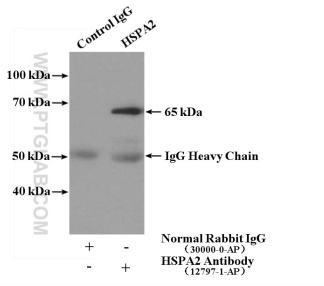
WB result of HSPA2 antibody (12797-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-HSPA2 transfected HeLa cells.



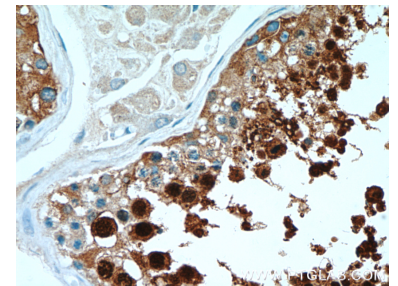
Immunohistochemical analysis of paraffin-embedded human testis using 12797-1-AP (HSPA2 antibody) at dilution of 1:50 (under 10x lens).



1X10<sup>6</sup> HeLa cells were stained with 0.2ug HSPA2 antibody (12797-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.



IP result of anti-HSPA2 (IP:12797-1-AP, 4ug; Detection:12797-1-AP 1:1000) with mouse skeletal muscle tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human testis using 12797-1-AP (HSPA2 antibody) at dilution of 1:50 (under 40x lens).