

For Research Use Only

HSPA2 Monoclonal antibody

Catalog Number: 66291-1-Ig 3 Publications



Basic Information

Catalog Number: 66291-1-Ig	GenBank Accession Number: BC036107	Purification Method: Protein G purification
Size: 150ul, Concentration: 1300 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 3306	CloneNo.: 1A4A9
Source: Mouse	UNIPROT ID: P54652	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:20-1:200
Isotype: IgG1	Full Name: heat shock 70kDa protein 2	
Immunogen Catalog Number: AG24228	Calculated MW: 639 aa, 70 kDa	
	Observed MW: 70 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls: WB : HepG2 cells, ROS1728 cells, HeLa cells, Jurkat cells, HSC-T6 cells, NIH/3T3 cells, RAW 264.7 cells IHC : human testis tissue, human prostate cancer tissue
Cited Applications: WB	
Species Specificity: human, rat, mouse	
Cited Species: human	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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
J Pei	33757590	Clin Epigenetics	WB
Maike Schuldt	33732734	Front Cardiovasc Med	WB
Larissa M Dorsch	31323898	Cells	WB

Storage

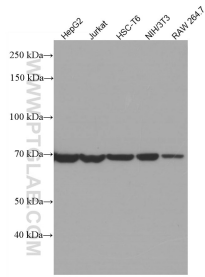
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

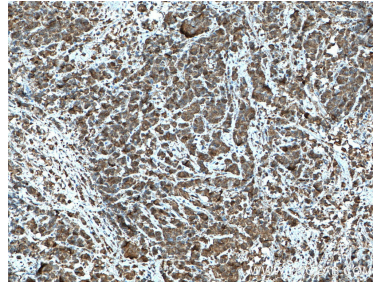
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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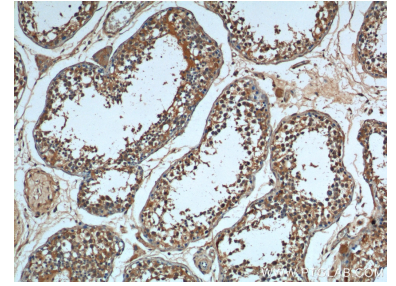
Selected Validation Data



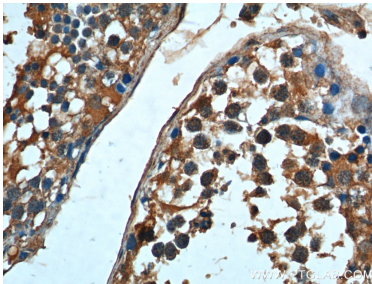
Various lysates (25 µg/lane) were subjected to SDS PAGE followed by western blot with 66291-1-Ig (HSPA2 antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours.



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).



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 66291-1-Ig (HSPA2 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 66291-1-Ig (HSPA2 Antibody) at dilution of 1:200 (under 40x lens).