

For Research Use Only

Hsc70 Monoclonal antibody

Catalog Number: 66442-1-Ig

Featured Product

7 Publications



Basic Information

Catalog Number: 66442-1-Ig	GenBank Accession Number: BC007276	Purification Method: Protein A purification
Size: 150ul , Concentration: 1000 µg/ml by Nanodrop and 500 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 3312	CloneNo.: 1A4B3
Source: Mouse	Full Name: heat shock 70kDa protein 8	Recommended Dilutions: WB 1:20000-1:100000 IHC 1:50-1:500
Isotype: IgG1	Calculated MW: 70 kDa	
Immunogen Catalog Number: AG17910	Observed MW: 70 kDa	

Applications

Tested Applications:

IHC, WB, ELISA

Cited Applications:

IF, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, goat, mouse, pig

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 : LNCaP cells, HeLa cells, Recombinant protein, HEK-293 cells, Jurkat cells, ROS1728 cells, C6 cells, RAW 264.7 cells, NIH/3T3 cells, HepG2 cells, K-562 cells, HSC-T6 cells, 4T1 cells

IHC : human ovary tumor tissue,

Background Information

HSPA8 (also known as HSC70) is a member of the HSPA (HSP70) family of heat-shock proteins which are highly conserved chaperons implicated in protein folding, protein refolding, protein transport, and protein targeting. HSPA8 is a constitutively expressed cytosol/nuclear protein able to translocate between cytoplasm and nucleus. Recently it has been reported that HSPA8 can interact with α -synuclein, the critical pathological protein of Parkinson's disease, indicating its implication in neurodegenerative disease. (PMID: 21832061)

Notable Publications

Author	Pubmed ID	Journal	Application
Zhipeng Sun	36499219	Int J Mol Sci	WB
Yongjie Wang	33761934	Cell Commun Signal	WB
Maya Suzuki	36648092	FEBS Open Bio	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

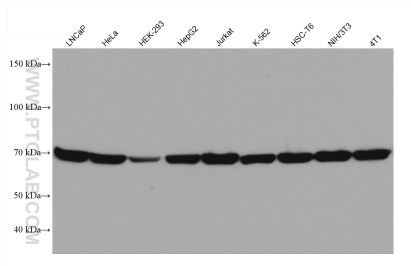
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

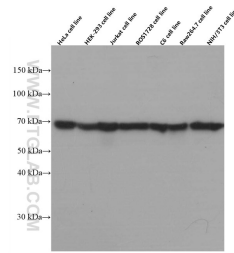
E: proteintech@ptglab.com
W: ptglab.com

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

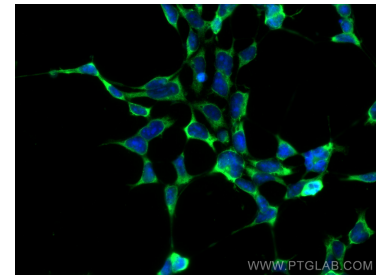
Selected Validation Data



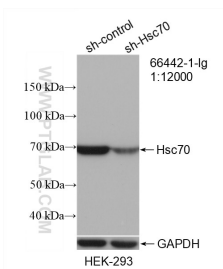
Various lysates were subjected to SDS PAGE followed by western blot with 66442-1-Ig (Hsc70 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.



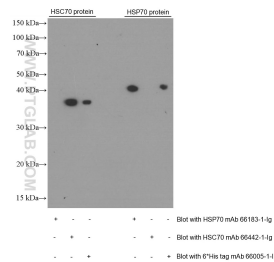
Western blot analysis of Hsc70 in various cell lines using 66442-1-Ig (Hsc70 Antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



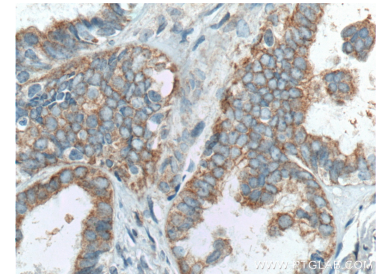
Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using Hsc70 antibody (66442-1-Ig, Clone: 1A4B3) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



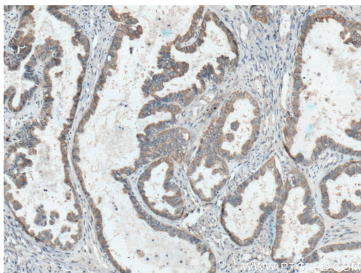
WB result of Hsc70 antibody (66442-1-Ig; 1:12000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Hsc70 transfected HEK-293 cells.



6*His tagged-recombinant HSP70 (291-641 aa) and HSC70 (346-646 aa) proteins were subjected to SDS PAGE followed by western blot with 66183-1-Ig (HSP70 antibody), 66442-1-Ig (HSC70 antibody), and 66005-1-Ig (His antibody), respectively, at dilution of 1:50000, incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 66442-1-Ig (Hsc70 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 66442-1-Ig (Hsc70 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).