

For Research Use Only

Hsc70 Monoclonal antibody

Catalog Number: 66442-1-Ig **3 Publications**



Basic Information

Catalog Number: 66442-1-Ig	GenBank Accession Number: BC007276	Purification Method: Protein A purification
Size: 150ul , Concentration: 1000 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 1:3000-1:20000 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	Positive Controls:
Cited Applications: IF, WB	WB : HeLa cells, LNCaP cells, Recombinant protein, HEK-293 cells, HepG2 cells, Jurkat cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells, ROS1728 cells, C6 cells, RAW 264.7 cells
Species Specificity: human, mouse, rat	IHC : human ovary tumor tissue,
Cited Species: human, 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	

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
Yongjie Wang	33761934	Cell Commun Signal	WB
Lei Wang	35138165	Microbiol Spectr	WB,IF
Jialong Chen	34930303	J Neuroinflammation	WB

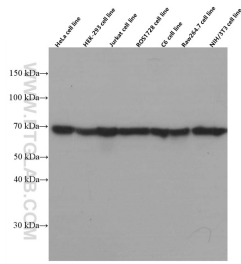
Storage

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

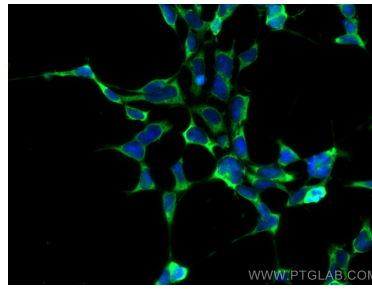
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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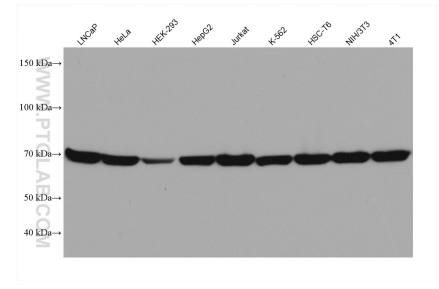
Selected Validation Data



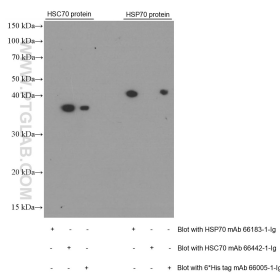
Western blot analysis of Hsc70 in various cell lines using 66442-1-Ig (Hsc70 Antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



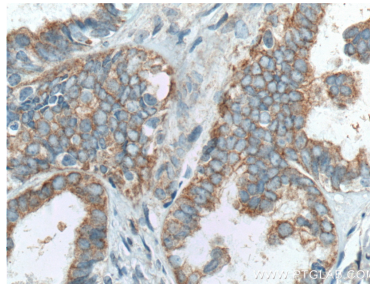
Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using Hsc70 antibody (66442-1-Ig, Clone: 1A4B3) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



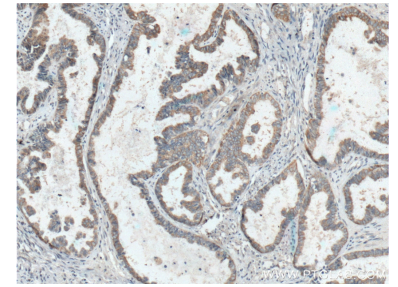
Various lysates were subjected to SDS PAGE followed by western blot with 66442-1-Ig (Hsc70 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.



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).