

For Research Use Only

# Hsc70 Monoclonal antibody, PBS Only



Catalog Number: 66442-1-PBS

Featured Product

## Basic Information

Catalog Number:

66442-1-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG17910

GenBank Accession Number:

BC007276

GeneID (NCBI):

3312

UNIPROT ID:

P11142

Full Name:

heat shock 70kDa protein 8

Calculated MW:

70 kDa

Observed MW:

70 kDa

Purification Method:

Protein A purification

CloneNo.:

1A4B3

## Applications

Tested Applications:

WB, IHC, Indirect ELISA

Species Specificity:

human, mouse, rat

## 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  $\alpha$ -synuclein, the critical pathological protein of Parkinson's disease, indicating its implication in neurodegenerative disease. (PMID: 21832061)

## Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS Only

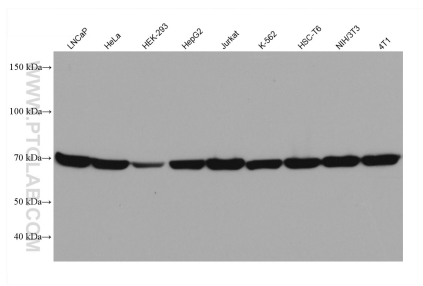
For technical support and original validation data for this product please contact:

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

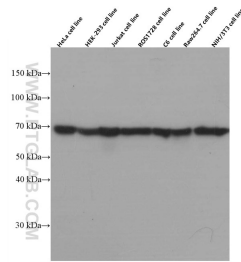
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

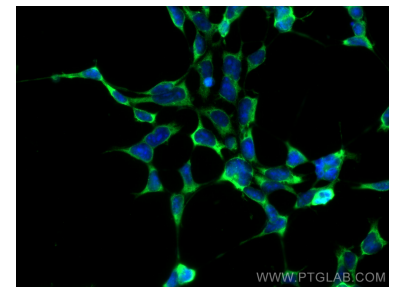
## Selected Validation Data



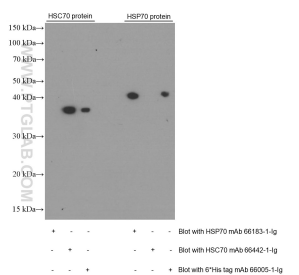
Various lysates were subjected to SDS PAGE followed by western blot with 66442-1-Ig (Hsc70 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66442-1-PBS in a different storage buffer formulation.



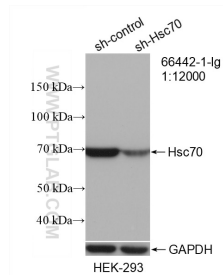
Western blot analysis of Hsc70 in various cell lines using 66442-1-Ig (Hsc70 Antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66442-1-PBS in a different storage buffer formulation.



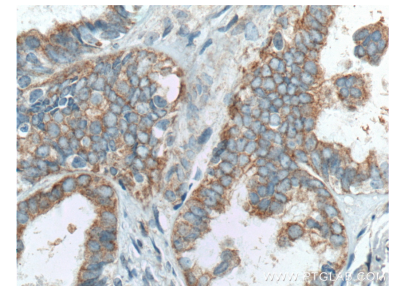
Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using Hsc70 antibody (66442-1-Ig, Clone: 1A4B3 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 66442-1-PBS in a different storage buffer formulation.



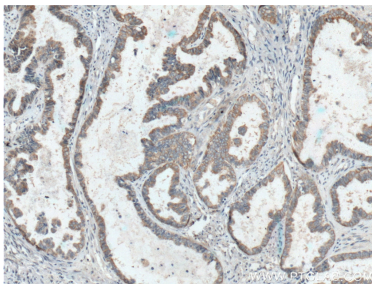
6<sup>3</sup>His tagged-recombinant HSP70 (291-641 aa) and HSC70 (346-646 aa) proteins were subjected to SDS PAGE followed by western blot with 66183-1-Ig (HSP70 antibody), 66442-1-Ig (HSC70 antibody), and 66005-1-Ig (His antibody), respectively, at dilution of 1:50000, incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66442-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 66442-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 66442-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 66442-1-PBS in a different storage buffer formulation.