

For Research Use Only

# Hsc70 Polyclonal antibody

Catalog Number: 10654-1-AP

Featured Product

92 Publications



## Basic Information

Catalog Number:

10654-1-AP

Concentration:

400 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1018

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:

Antigen affinity purification

Recommended Dilutions:

WB: 1:2000-1:16000

IHC: 1:50-1:500

IF/ICC: 1:200-1:800

## Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP, RIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, pig, goat

**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** : HEK-293 cells, MCF-7 cells, PC-12 cells, HeLa cells, NIH/3T3 cells, U-87 MG cells, mouse brain tissue, rat brain tissue

**IHC** : human ovary tumor tissue, human renal cell carcinoma tissue

**IF/ICC** : HEK-293 cells,

## 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 (21832061). In addition, this antibody is most likely able to recognize Hsp70.

## Notable Publications

Author	Pubmed ID	Journal	Application
Zundong Liu	34556812	Oncogene	WB
Yosuke Okamoto	31506297	J Biol Chem	WB, CoIP
Liu Chih-I CI	22885288	J Proteomics	WB

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

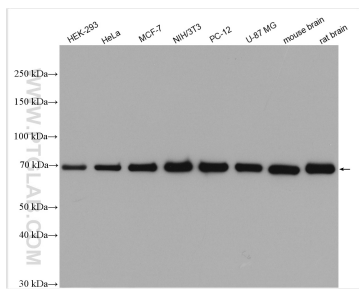
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

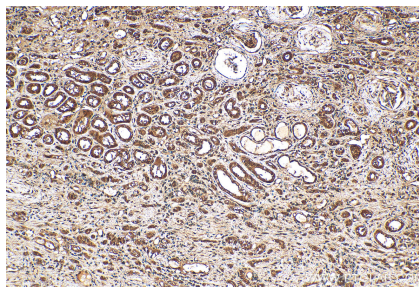
W: [ptgcn.com](http://ptgcn.com)

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

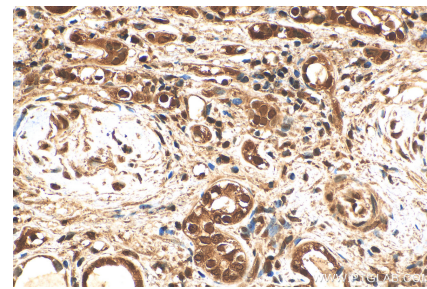
## Selected Validation Data



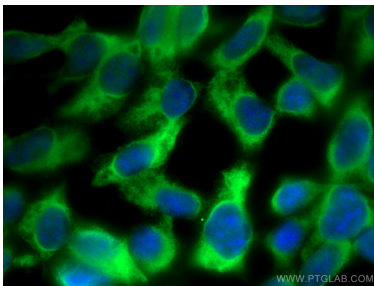
Various lysates were subjected to SDS PAGE followed by western blot with 10654-1-AP (Hsc70 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



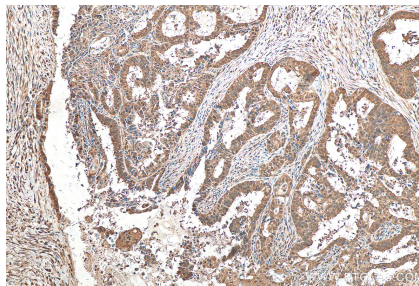
Immunohistochemical analysis of paraffin-embedded human renal cell carcinoma tissue slide using 10654-1-AP (Hsc70 antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



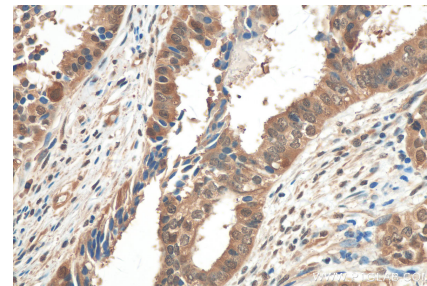
Immunohistochemical analysis of paraffin-embedded human renal cell carcinoma tissue slide using 10654-1-AP (Hsc70 antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HEK-293 cells using Hsc70 antibody (10654-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 10654-1-AP (Hsc70 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 10654-1-AP (Hsc70 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).