For Research Use Only

Hsc70 Polyclonal antibody

Catalog Number:10654-1-AP Featured Product 76 Publications

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Basic Information

Catalog Number:
10654-1-AP

Concentration:
400 μg/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
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF/ICC 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Cited Applications:
WB, IHC, IF, IP, CoIP

Species Specificity:
human, mouse, rat

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

IP : HEK-293 cells,

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 α-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

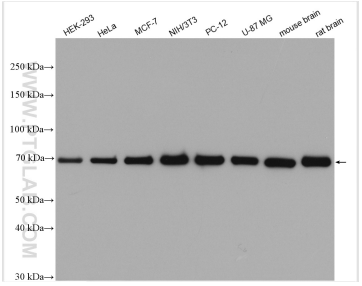
Author	Pubmed ID	Journal	Application
Zundong Liu	34556812	Oncogene	WB
Yosuke Okamoto	31506297	J Biol Chem	WB,CoIP
Liu Chih-I CI	22885288	J Proteomics	WB

Storage

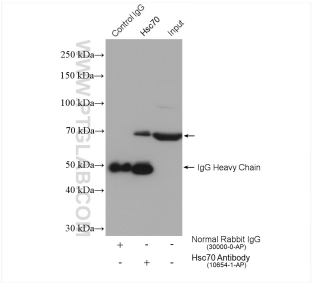
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

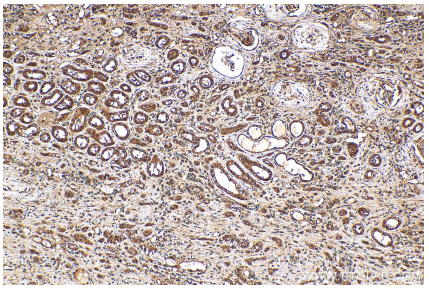
Selected Validation Data



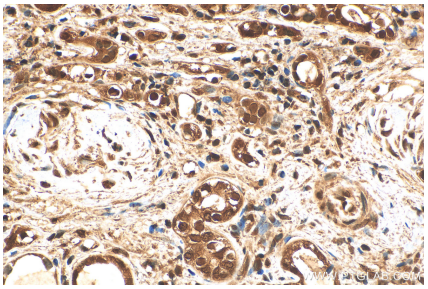
Various lysates were subjected to SDS PAGE followed by western blot with 10654-1-AP (Hsc70 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



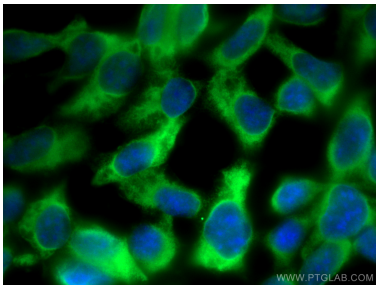
IP result of anti-Hsc70 (IP:10654-1-AP, 4ug; Detection:10654-1-AP 1:2000) with HEK-293 cells lysate 1640 ug.



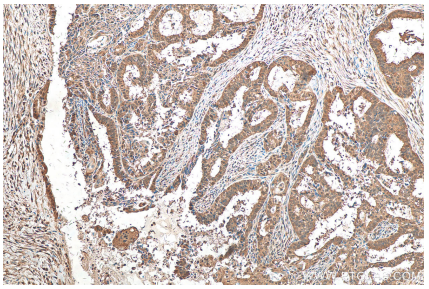
Immunohistochemical analysis of paraffin-embedded human renal cell carcinoma tissue slide using 10654-1-AP (Hsc70 antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



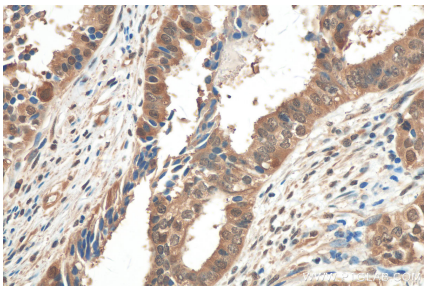
Immunohistochemical analysis of paraffin-embedded human renal cell carcinoma tissue slide using 10654-1-AP (Hsc70 antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 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).