For Research Use Only

PSPC1 Polyclonal antibody

Catalog Number:16714-1-AP Featured Product 11 Publications

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Basic Information

Catalog Number:
16714-1-AP

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG10136

GenBank Accession Number:
BC014184

GeneID (NCBI):
55269

UNIPROT ID:
Q8WXF1

Full Name:
paraspeckle component 1

Calculated MW:
523 aa, 59 kDa

Observed MW:
66 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:5000-1:50000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC: 1:250-1:1000
IF/ICC: 1:50-1:500

Applications

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

Cited Applications:
WB, IF, RIP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

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, HepG2 cells, PC-3 cells

IP : HEK-293 cells,

IHC : human placenta tissue,

IF/ICC : PC-3 cells,

Background Information

PSPC1 (paraspeckle component 1), a known paraspeckle biomarker, is a putative transcription factor that belongs to the Drosophila behavior/human splicing (DBHS) family. PSPC1 was recently identified as a contextual determinant of tumor progression in multiple cancer types involving oncogenic reprogramming to switch proapoptotic TGF-β to prometastatic TGF-β via hijacking of Smad2/3 targeting. Upregulated PSPC1 is correlated with advanced tumor stages and poor survival of patients with breast, lung, and liver cancers. Upregulated PSPC1 potentiates expression of mesenchymal markers, EMT transcription factors (EMT-TF), cancer stem-like cell transcription factors (CSC-TF), and c-Myc-related proliferation genes, thus promoting migration, invasion, spheroid formation, tumor formation, and metastasis.

Notable Publications

Author	Pubmed ID	Journal	Application
Jing Fan	30032211	Nucleic Acids Res	WB
Ralf Kleene	36674445	Int J Mol Sci	WB
Jianfeng Zhang	40634299	Cell Death Dis	WB

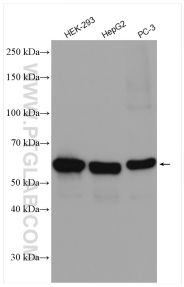
Storage

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

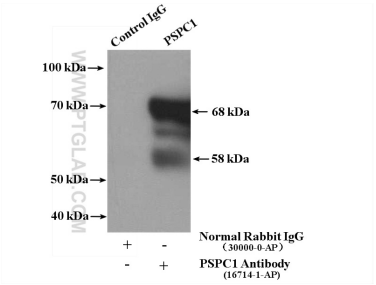
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

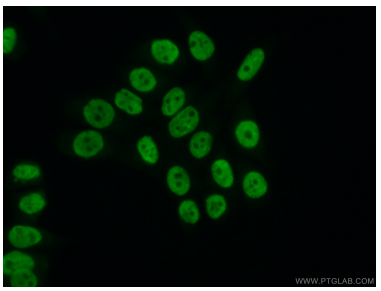
Selected Validation Data



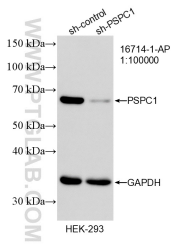
Various lysates were subjected to SDS PAGE followed by western blot with 16714-1-AP (PSPC1 antibody) at dilution of 1:12000 incubated at room temperature for 1.5 hours.



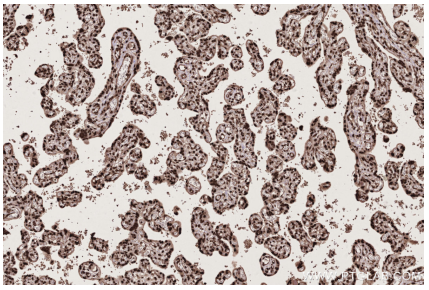
IP result of anti-PSPC1 (IP:16714-1-AP, 4ug; Detection:16714-1-AP 1:1000) with HEK-293 cells lysate 2800ug.



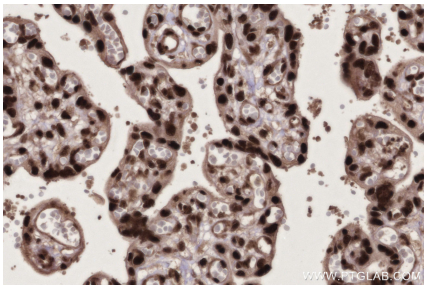
Immunofluorescent analysis of (10% Formaldehyde) fixed PC-3 cells using 16714-1-AP (PSPC1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



WB result of PSPC1 antibody (16714-1-AP; 1:100000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PSPC1 transfected HEK-293 cells.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 16714-1-AP (PSPC1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 16714-1-AP (PSPC1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).