For Research Use Only

TAP1 Polyclonal antibody

Catalog Number:11114-1-AP Featured Product 32 Publications

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Basic Information

Catalog Number:
11114-1-AP

Concentration:
700 ug/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1619

GenBank Accession Number:
BC014081

GeneID (NCBI):
6890

UNIPROT ID:
Q03518

Full Name:
transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)

Calculated MW:
81 kDa

Observed MW:
70-81 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:1000-1:6000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC: 1:20-1:200
IF/ICC: 1:20-1:200

Applications

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

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

Species Specificity:
human, mouse

Cited Species:
human, mouse, rat

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 : HCT 116 cells, HepG2 cells, mouse skeletal muscle tissue, HeLa cells, mouse spleen tissue, SW480 cells

IP : HepG2 cells,

IHC : human pancreas cancer tissue,

IF/ICC : HepG2 cells,

Background Information

TAP1, also known as ABCB2, PSF1 or RING4, is a member of the ATP-binding cassette (ABC) family of transmembrane transporters and is an essential component of the major histocompatability complex (MHC) class I antigen-presenting pathway. TAP is involved in the transport of antigens from the cytoplasm to the endoplasmic reticulum for association with MHC class I molecules. It also acts as a molecular scaffold for the final stage of MHC class I folding. Defects in TAP1 are a cause of bare lymphocyte syndrome type 1 (BLS1). Western blot analysis using this antibody detected a major band around 70-80 kDa in HeLa cells.

Notable Publications

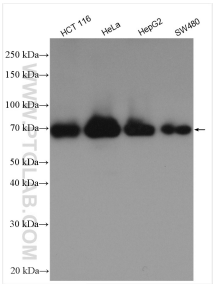
Author	Pubmed ID	Journal	Application
Nima Attaran	36276482	Oncol Lett	IHC
Yan Li	36452477	Clin Transl Immunology	WB
Zhen-Da Wang	36419887	Front Oncol	WB,IHC

Storage

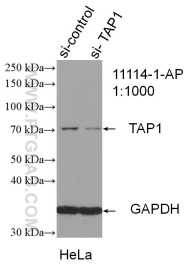
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

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

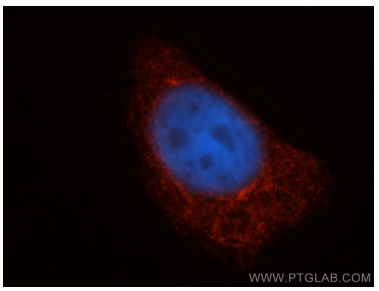
Selected Validation Data



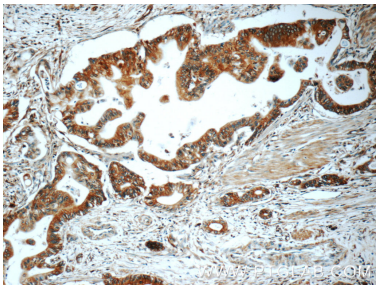
Various lysates were subjected to SDS PAGE followed by western blot with 11114-1-AP (TAP1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



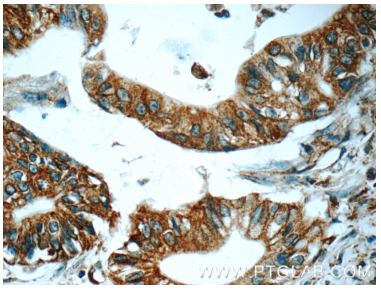
WB result of TAP1 antibody (11114-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-TAP1 transfected HeLa cells.



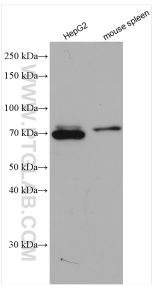
Immunofluorescent analysis of HepG2 cells, using TAP1 antibody 11114-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



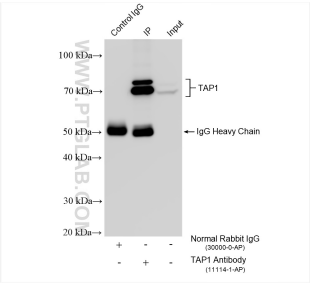
Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 11114-1-AP (TAP1 Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 11114-1-AP (TAP1 Antibody) at dilution of 1:50 (under 40x lens).



Various lysates were subjected to SDS PAGE followed by western blot with 11114-1-AP (TAP1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



IP result of anti-TAP1 (IP:11114-1-AP, 4ug; Detection:11114-1-AP 1:3000) with HepG2 cells lysate 1320 ug.