

For Research Use Only

USP5 Polyclonal antibody

Catalog Number:10473-1-AP

Featured Product

40 Publications



Basic Information

Catalog Number:

10473-1-AP

Size:

800 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0770

GenBank Accession Number:

BC004889

GeneID (NCBI):

8078

UNIPROT ID:

P45974

Full Name:

ubiquitin specific peptidase 5
(isopeptidase T)

Calculated MW:

96 kDa

Observed MW:

95-105 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:12000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:100-1:400

Applications

Tested Applications:

IHC, IP, WB, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP, ELISA

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: A549 cells, mouse brain tissue, human heart tissue, human colon tissue, U2OS cells, DU 145 cells

IP: mouse brain tissue,

IHC: human heart tissue, human spleen tissue

Background Information

USP5, also named as ISOT, belongs to the peptidase C19 family. Knock-down of USP5 causes the accumulation of TP53/p53 and an increase in TP53/p53 transcriptional activity because the unanchored polyubiquitin that accumulates is able to compete with ubiquitinated TP53/p53 but not with MDM2 for proteasomal recognition. USP5 is a potential target for p53 activating therapeutic agents for the treatment of cancer (PMID: 19098288). It is a novel proteasome associated protein (PMID: 19182904). USP5 cleaves linear and branched multiubiquitin polymers with a marked preference for branched polymers. USP5 has 2 isoforms with the molecular mass of 96 kDa and 93 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Jie Lian	33123271	J Cancer	WB,IHC
Nitchakarn Kaokhum	36182100	Mol Cell Proteomics	WB
Shiori Tomita	32971090	Eur J Pharmacol	WB

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

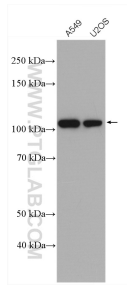
T: 4006900926

E: Proteintech-CN@ptglab.com

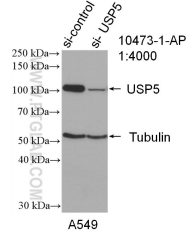
W: ptgcn.com

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

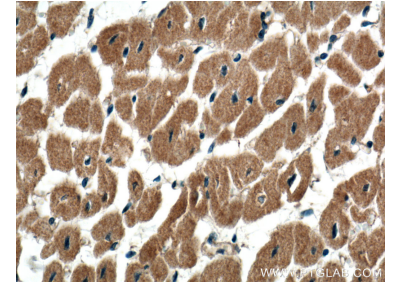
Selected Validation Data



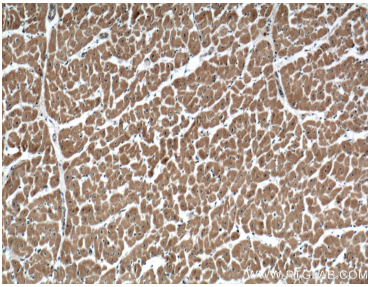
Various lysates were subjected to SDS PAGE followed by western blot with 10473-1-AP (USP5 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



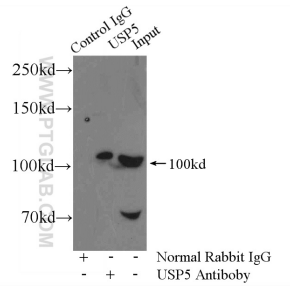
WB result of USP5 antibody (10473-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-USP5 transfected A549 cells.



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 10473-1-AP (USP5 antibody) at dilution of 1:200 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 10473-1-AP (USP5 antibody) at dilution of 1:200 (under 10x lens).



IP result of anti-USP5 (IP:10473-1-AP, 4ug; Detection:10473-1-AP 1:1000) with mouse brain tissue lysate 4000ug.