

For Research Use Only

USP5 Monoclonal antibody

Catalog Number: 66213-1-Ig

Featured Product

3 Publications



Basic Information

Catalog Number:

66213-1-Ig

Size:

150ul, Concentration: 1500 ug/ml by Nanodrop and 907 ug/ml by Bradford method using BSA as the standard;

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG7575

GenBank Accession Number:

BC005139

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:

Protein A purification

CloneNo.:

3F12C10

Recommended Dilutions:

WB 1:2000-1:10000

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IF/ICC, ELISA

Cited Applications:

WB, IF, CoIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Positive Controls:

WB: U2OS cells, HeLa cells, HEK-293 cells, Jurkat cells, A549 cells, LNCaP cells, HepG2 cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells

IF/ICC: A549 cells,

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.

Notable Publications

Author	Pubmed ID	Journal	Application
Katrin Juenemann	29362455	Sci Rep	WB
Wenjing Sun	39350285	Cell Commun Signal	IF, CoIP
Xiangling Xiao	37208329	Nat Commun	IF

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

*** 20ul sizes contain 0.1% BSA

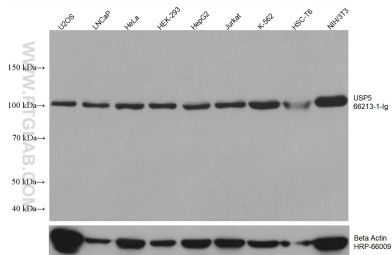
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

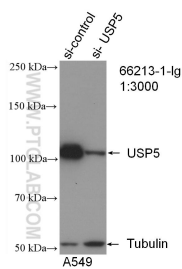
E: proteintech@ptglab.com
W: ptglab.com

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

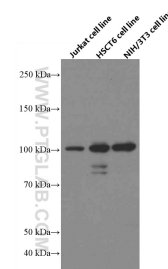
Selected Validation Data



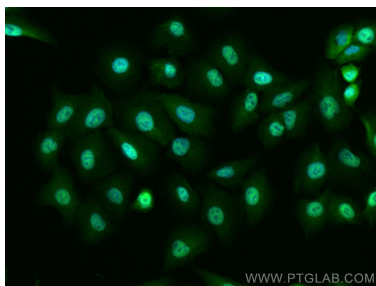
Various lysates were subjected to SDS PAGE followed by western blot with 66213-1-Ig (USP5 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.



WB result of USP5 antibody (66213-1-Ig; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-USP5 transfected A549 cells.



Jurkat cells were subjected to SDS PAGE followed by western blot with 66213-1-Ig (USP5 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed A549 cells using USP5 antibody (66213-1-Ig, Clone: 3F12C10) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).