

For Research Use Only

USP5 Monoclonal antibody

Catalog Number: 66213-1-Ig

Featured Product

2 Publications



Basic Information

| | | |
|--|--|--|
| Catalog Number: 66213-1-Ig | GenBank Accession Number: BC005139 | Purification Method: Protein A purification |
| Size: 150ul, Concentration: 1500 µg/ml by Nanodrop and 907 µg/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 8078 | CloneNo.: 3F12C10 |
| Source: Mouse | Full Name: ubiquitin specific peptidase 5 (isopeptidase T) | Recommended Dilutions: WB 1:2000-1:10000 IF 1:200-1:800 |
| Isotype: IgG2a | Calculated MW: 96 kDa | |
| Immunogen Catalog Number: AG7575 | Observed MW: 95-105 kDa | |

Applications

| | |
|--|---|
| Tested Applications: IF, WB, ELISA | 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 |
| Cited Applications: IF, WB | IF : A549 cells, |
| Species Specificity: human, mouse, rat | |
| Cited Species: human, rat | |

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 |
| Xiangling Xiao | 37208329 | Nat Commun | IF |

Storage

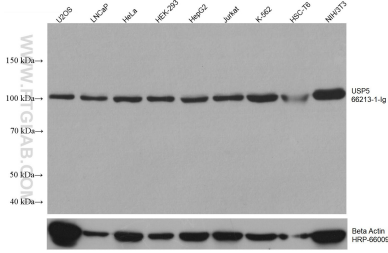
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

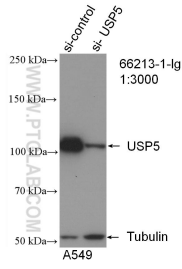
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

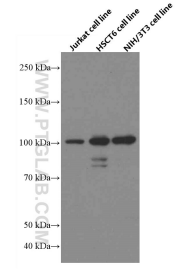
Selected Validation Data



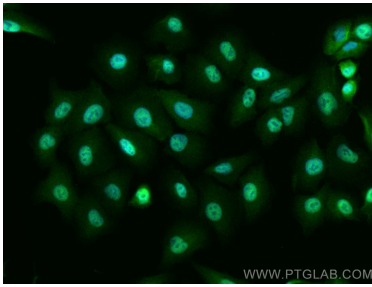
Various lysates were subjected to SDS PAGE followed by western blot with 66213-1-Ig (USP5 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.



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).