

For Research Use Only

USP5 Polyclonal antibody

Catalog Number: 15158-1-AP

Featured Product

3 Publications



Basic Information

Catalog Number: 15158-1-AP	GenBank Accession Number: BC005139	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 450 µg/ml by Nanodrop and 267 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 8078	Recommended Dilutions: WB 1:500-1:3000 IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB
Source: Rabbit	Full Name: ubiquitin specific peptidase 5 (isopeptidase T)	
Isotype: IgG	Calculated MW: 96 kDa	
Immunogen Catalog Number: AG7252	Observed MW: 95-105 kDa	

Applications

Tested Applications: IP, WB, ELISA	Positive Controls: WB : mouse lung tissue, A549 cells, HeLa cells, human brain tissue, rat lung tissue, rat brain tissue, MDA-MB-453s cells IP : mouse brain tissue,
Cited Applications: IF, IP, WB	
Species Specificity: human, mouse, rat	
Cited Species: mouse	

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
Agustin García-Caballero	25189210	Neuron	WB, IP, IF
Mufeng Du	33913576	FASEB J	WB
Shiori Tomita	30552955	Toxicology	WB

Storage

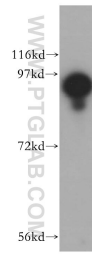
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

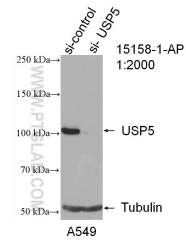
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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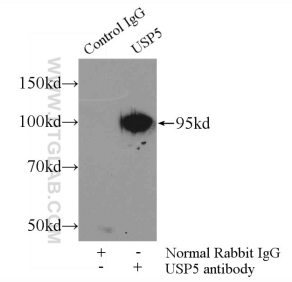
Selected Validation Data



mouse lung tissue were subjected to SDS PAGE followed by western blot with 15158-1-AP (USP5 antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours.



WB result of USP5 antibody (15158-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-USP5 transfected A549 cells.



IP Result of anti-USP5 (IP:15158-1-AP, 4ug; Detection:15158-1-AP 1:1000) with mouse brain tissue lysate 4000ug.