## For Research Use Only

## **USP5** Polyclonal antibody

Catalog Number: 10473-1-AP

Featured Product



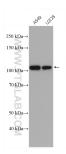


## Catalog Number: GenBank Accession Number: **Purification Method: Basic Information** 10473-1-AP BC004889 Antigen affinity purification GenelD (NCBI): Recommended Dilutions: Size: 150ul , Concentration: 800 ug/ml by 8078 WB 1:2000-1:12000 Nanodrop: IP 0.5-4.0 ug for 1.0-3.0 mg of total UNIPROT ID: protein lysate Source P45974 IHC 1:100-1:400 Rabbit Full Name: Isotype ubiquitin specific peptidase 5 lgG (isopeptidase T) Immunogen Catalog Number: Calculated MW: AG0770 96 kDa **Observed MW:** 95-105 kDa **Applications Tested Applications:** Positive Controls: WB, IHC, IP, ELISA WB: A 549 cells, mouse brain tissue, human heart **Cited Applications:** tissue, human colon tissue, U2OS cells, DU 145 cells WB, IHC, IF, IP, CoIP, ELISA IP: mouse brain tissue, Species Specificity: IHC : human heart tissue, human spleen tissue 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 **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 WB,IHC lielian 33123271 1 Cancer Nitchakarn Kaokhum Mol Cell Proteomics WB 36182100 Shiori Tomita Fur 1 Pharmacol WB 32971090 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

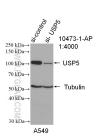
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll freeE: proteintech@ptglab.comin USA), or 1(312) 455-8498 (outside USA)W: ptglab.com

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

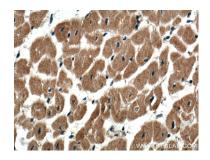
## Selected Validation Data



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



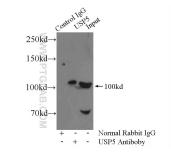
WB result of USP5 antibody (10473-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-USP5 transfected A549 cells.



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



Immunohistochemical analysis of paraffinembedded 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.