For Research Use Only

USP5 Polyclonal antibody

Catalog Number: 10473-1-AP

Featured Product



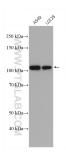


Catalog Number: GenBank Accession Number: **Purification Method: Basic Information** 10473-1-AP BC004889 Antigen affinity purification GenelD (NCBI): Recommended Dilutions: Size: 150ul , Concentration: 800 ug/ml by 8078 WB 1:2000-1:12000 Nanodrop: IP 0.5-4.0 ug for 1.0-3.0 mg of total UNIPROT ID: protein 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

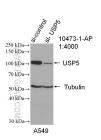
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll freeE: proteintech@ptglab.comin USA), or 1(312) 455-8498 (outside USA)W: ptglab.com

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

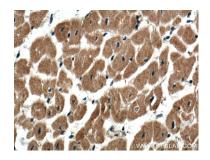
Selected Validation Data



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.



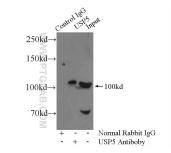
WB result of USP5 antibody (10473-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-USP5 transfected A549 cells.



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.