

For Research Use Only

USP53 Recombinant antibody

Catalog Number: 83846-1-RR



Basic Information

Catalog Number: 83846-1-RR	GenBank Accession Number: NM_019050	Purification Method: Protein A purification
Size: 1000 ug/ml	GeneID (NCBI): 54532	CloneNo.: 240971A6
Source: Rabbit	UNIPROT ID: Q70EK8	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:50-1:500
Isotype: IgG	Full Name: ubiquitin specific peptidase 53	
Immunogen Catalog Number: AG28923	Calculated MW: 121 kDa	
	Observed MW: 120-130 kDa	

Applications

Tested Applications:
WB, IHC, ELISA

Species Specificity:
human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: HEK-293T cells, A431 cells, HeLa cells, HepG2 cells

IHC: rat liver tissue, mouse testis tissue

Background Information

Ubiquitin specific peptidase 53 (USP53) was originally discovered in cholestasis, and its tumor suppressive effects have recently been reported in various cancers. Zhao et al. showed that USP53 interacted with FKBP51 in lung adenocarcinoma cells, and induced apoptosis via the AKT pathway. Furthermore, USP53 inhibited the progression of clear cell renal cell carcinoma by suppressing the nuclear factor κ B (NF - κ B) pathway. (PMID: 35654790)

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

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

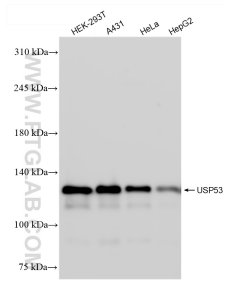
T: 4006900926

E: Proteintech-CN@ptglab.com

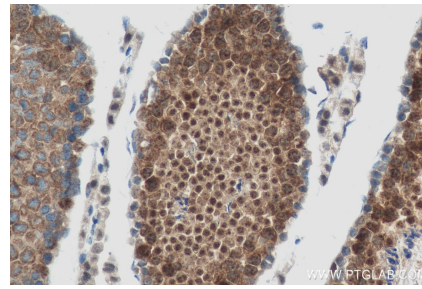
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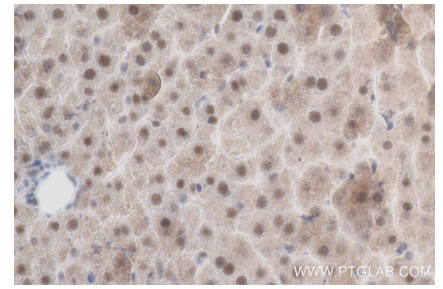
Selected Validation Data



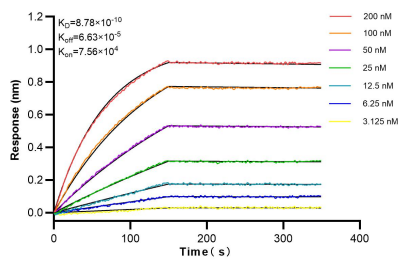
Various lysates were subjected to SDS PAGE followed by western blot with 83846-1-RR (USP53 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 83846-1-RR (USP53 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat liver tissue slide using 83846-1-RR (USP53 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 83846-1-RR against Human USP53 were performed. The affinity constant is 0.878 nM.