

For Research Use Only

# USP9X Polyclonal antibody

Catalog Number: 55054-1-AP

Featured Product

28 Publications



## Basic Information

**Catalog Number:**

55054-1-AP

**Size:**

150ul, Concentration: 400 µg/ml by Nanodrop and 400 µg/ml by Bradford method using BSA as the standard;

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

NM\_001039590

**GeneID (NCBI):**

8239

**UNIPROT ID:**

Q93008

**Full Name:**

ubiquitin specific peptidase 9, X-linked

**Calculated MW:**

292 kDa

**Observed MW:**

260-290 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:5000-1:50000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF 1:200-1:800

## Applications

**Tested Applications:**

WB, IP, IF, IHC, ELISA

**Cited Applications:**

WB, IP, IF, IHC, CoIP

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, rat, mouse, pig

**Positive Controls:**

**WB:** HEK-293 cells, HeLa cells, K-562 cells, mouse brain tissue, rat brain tissue

**IP:** HeLa cells,

**IHC:** human pancreas cancer tissue,

**IF:** HeLa cells,

**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

USP9X, also named as DFFRX, FAM and USP9, belongs to the peptidase C19 family. It may function as a ubiquitin-protein or polyubiquitin hydrolase involved both in the processing of ubiquitin precursors and of ubiquitinated proteins. It plays an important regulatory role at the level of protein turnover by preventing degradation of proteins through the removal of conjugated ubiquitin. USP9X is an essential component of TGF-beta/BMP signaling cascade. Deubiquitination of SMAD4 by USP9X restores its competence to mediate TGF-beta signaling. USP9X regulates chromosome alignment and segregation in mitosis by regulating the localization of BIRC5/survivin to mitotic centromeres. The antibody is specific to USP9X. It has no cross reaction to USP9Y.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xinyao Tian	36163170	Cell Death Dis	WB
Shan Wang	36330954	Cancer Lett	WB,IHC,CoIP
Liu Yang	35578792	J Cell Physiol	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

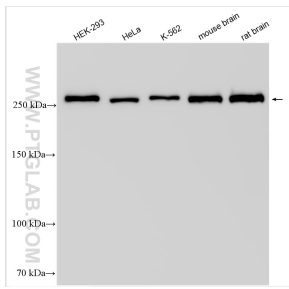
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

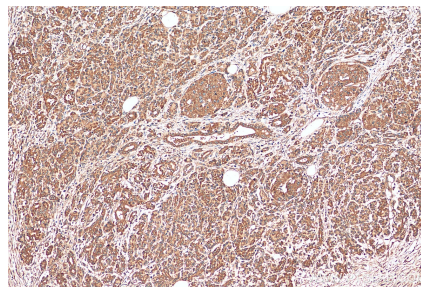
E: proteintech@ptglab.com  
W: ptglab.com

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

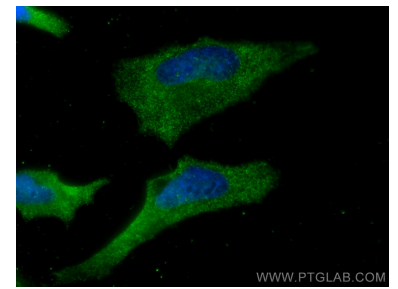
## Selected Validation Data



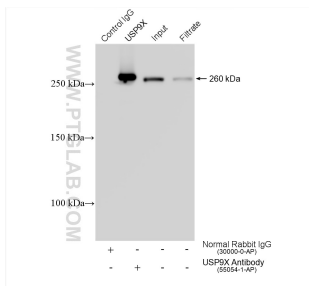
Various lysates were subjected to SDS PAGE followed by western blot with 55054-1-AP (USP9X antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



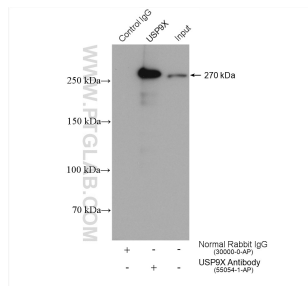
Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 55054-1-AP (USP9X antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using USP9X antibody (55054-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP result of anti-USP9X (IP:55054-1-AP, 4ug; Detection:55054-1-AP 1:4000) with HeLa cells lysate 2000 ug.



IP result of anti-USP9X (IP:55054-1-AP, 4ug; Detection:55054-1-AP 1:1000) with HeLa cells lysate 1280 ug.