For Research Use Only

USP9X Polyclonal antibody

Catalog Number:55054-1-AP Featured Product 39 Publications

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Basic Information

Catalog Number:
55054-1-AP

Size:
150ul , Concentration: 700 ug/ml by Nanodrop;

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 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF/ICC 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:
WB, IHC, IF, IP, CoIP

Species Specificity:
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

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/ICC : HeLa cells,

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 role 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. Deubiqitination 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
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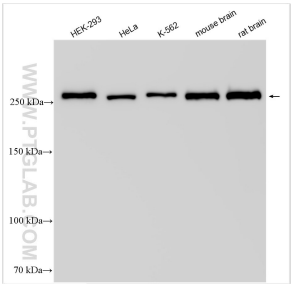
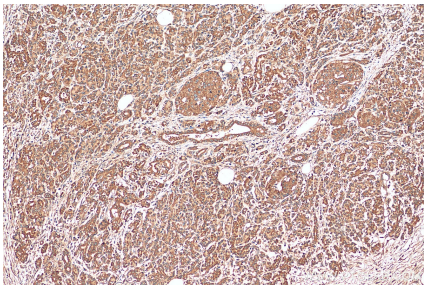
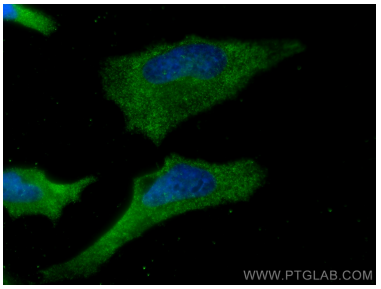
Selected Validation Data



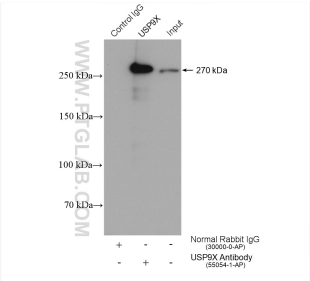
Various lysates were subjected to SDS PAGE followed by western blot with 55054-1-AP (USP9X antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



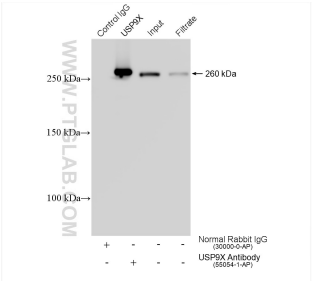
Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 55054-1-AP (USP9X antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



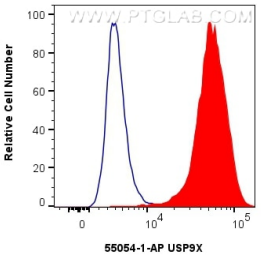
Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using USP9X antibody (55054-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



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



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



1x10^6 HeLa cells were intracellularly stained with 0.4 ug USP9X Polyclonal antibody (55054-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).