**USP9X Polyclonal ANTIBODY**

**Catalog Number:** 55054-1-AP

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### Basic Information

- **Catalog Number:** 55054-1-AP
- **Size:** 60 μg/150 μl
- **Source:** Rabbit
- **Isotype:** IgG
- **Purification Method:** Antigen affinity purification
- **Immunogen Catalog Number:**
- **GenBank Accession Number:** NM_001039590
- **GeneID (NCBI):** 8239
- **Full Name:** ubiquitin specific peptidase 9, X-linked
- **Calculated MW:** 292 kDa
- **Observed MW:** 260-290 kDa

### Recommended Dilutions:

- **WB:** 1:500-1:3000
- **IP:** 0.5-4.0 μg for IP and 1:500-1:1000 for WB
- **IHC:** 1:100-1:400
- **IF:** 1:10-1:100

### Applications

- **Tested Applications:** IF, IHC, IP, WB, ELISA
- **Cited Applications:** IF, IHC, IP, WB
- **Species Specificity:** human, mouse, rat

### 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 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. 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.

### Storage

- **Storage:** Store at -20ºC. Stable for one year after shipment.
- **Storage Buffer:** 0.1M NaHCO3, 0.1M glycine, 0.02% sodium azide and 50% glycerol pH 7.3.
- **Aliquoting is unnecessary for -20ºC storage**

### Positive Controls:

- **WB:** HEK-293 cells, HeLa cells, human brain tissue, K-562 cells
- **IP:** HEK-293 cells,
- **IHC:** human pancreas cancer tissue,
- **IF:** HeLa cells,

### Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
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<tr>
<td>Zesen Shang</td>
<td>31073027</td>
<td>J Biol Chem</td>
<td>WB, IF</td>
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<tr>
<td>Nagore Elu</td>
<td>31130875</td>
<td>Front Physiol</td>
<td>WB</td>
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<td>Xin Li</td>
<td>28306152</td>
<td>Nat Commun</td>
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For technical support and original validation data for this product please contact:

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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
HEK-293 cells were subjected to SDS PAGE followed by western blot with 55054-1-AP (USP9X antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.

IP Result of anti-USP9X (IP: 55054-1-AP, 5ug; Detection: 55054-1-AP 1:500) with HEK-293 cells lysate 2400ug.

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 retrieved with Tris-EDTA buffer (pH 9).

Immunofluorescent analysis of HeLa cells using 55054-1-AP (USP9X antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG.