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## USP9X (C) Antibody, Rabbit Polyclonal

**Cat#: R2911-2b**

**Quantity: 100 ul**

**Predicted | Observed MW: 291 kDa**

**Lot#: Refer to vial**

**Application: WB, IP**

**Uniprot ID: P70398**

### **Background:**

Probable ubiquitin carboxyl-terminal hydrolase FAF-X (USP9X) is a member of the peptidase C19 family similar to ubiquitin-specific proteases. Though the USP9X gene is located on the X chromosome, it escapes X-inactivation. USP9X is a deubiquitinase involved both in the processing of ubiquitin precursors and of ubiquitinated proteins; therefore, USP9X may play 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 the TGF-beta/BMP signaling cascade. USP9X also regulates chromosome alignment and segregation in mitosis by regulating the localization of BIRC5/survivin to mitotic centromeres. USP9X specifically hydrolyzes both 'Lys-29'- and 'Lys-33'-linked polyubiquitins chains, and specifically deubiquitinates monoubiquitinated SMAD4, opposing the activity of E3 ubiquitin-protein ligase TRIM33. Mutations in USP9X have been associated with Turner syndrome.

### **Other Names:**

Probable ubiquitin carboxyl-terminal hydrolase FAF-X, Deubiquitinating enzyme FAF-X, Fat facets homolog, Fat facets protein-related, X-linked, Ubiquitin carboxyl-terminal hydrolase FAM, Ubiquitin thioesterase FAF-X, Ubiquitin-specific protease 9, X chromosome, Ubiquitin-specific-processing protease FAF-X, Fafl, Fam, DFFRX, FAF, FAFL, FAM

### **Source and Purity:**

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the C-terminal region of mouse USP9X. Antibodies were purified by affinity purification using immunogen.

### **Storage Buffer and Condition:**

Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN<sub>3</sub>. Store at -20 °C. Stable for 6 months from date of receipt.

### **Species Specificity:**

Human, Mouse

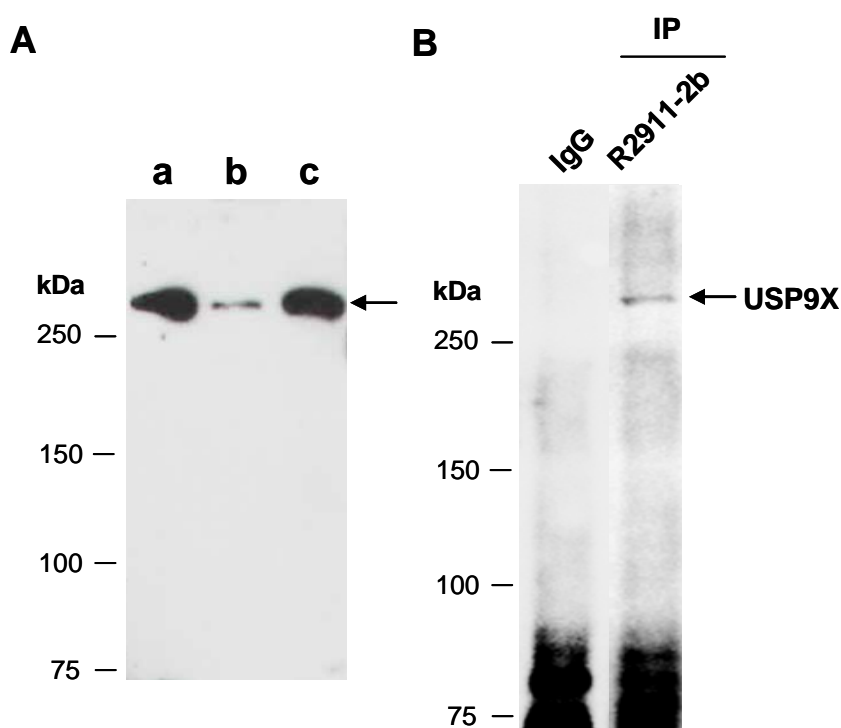
**Tested Applications:**

WB: 1:1,000-1:3,000 (detect endogenous protein\*)

IP: 1:100-1:200

\*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.

**Product Data:**



**Fig 1. (A)** Western blot of total cell extracts from a. mouse thymus, b. human HeLa, c. human Jurkat; using anti-USP9X (C) (R2911-2b) at RT for 2 h. **(B)** Total extracts from mouse thymus were immunoprecipitated (IP) with IgG or anti-USP9X (C) (R2911-2b); followed by WB with anti-USP9X (C) whole serum (R2911-2).