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USP9x

Cat.No. 285 003; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)

Data Sheet

Reconstitution/ Storage	50 μ g specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add 50 μ l H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	WB: 1 : 1000 (AP staining) IP: not tested yet ICC: not tested yet IHC: not tested yet IHC-P/FFPE: not tested yet
Immunogen	Recombinant protein corresponding to AA 1 to 91 from mouse USP9x (UniProt Id: P70398)
Reactivity	Reacts with: rat, mouse (P70398). Other species not tested yet.
Specificity	Specific for USP9x.

TO BE USED IN VITRO / FOR RESEARCH ONLY NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

Ubiquitinylation of proteins regulates their stability and turnover and is involved in many cellular processes like endocytosis, cell-cycle regulation, transcriptional activation, etc.

Ubiquitin can be removed by **deub**iquitylating enzymes (DUBs) comprising **u**biquitin **s**pecific **p**roteases (USPs), or **u**biquitin **C**-terminal **h**ydrolases (UCHs).

Fat **fa**cets in **m**ouse (**FAM**, also known as **Usp9X**) is a developmentally regulated UBP modulating ubiquitinylation of proteins like β-catenin, α-synuclein and others.

Selected General References

α-Synuclein fate is determined by USP9X-regulated monoubiquitination. Rott R, Szargel R, Haskin J, Bandopadhyay R, Lees AJ, Shani V, Engelender S Proceedings of the National Academy of Sciences of the United States of America (2011) 108(46): 18666-71.

Deubiquitinase FAM/USP9X interacts with the E3 ubiquitin ligase SMURF1 protein and protects it from ligase activity-dependent self-degradation.

Xie Y, Avello M, Schirle M, McWhinnie E, Feng Y, Bric-Furlong E, Wilson C, Nathans R, Zhang J, Kirschner MW, Huang SM, et al. The Journal of biological chemistry (2013) 288(5): 2976-85.

The ubiquitin ligase itch is auto-ubiquitylated in vivo and in vitro but is protected from degradation by interacting with the deubiquitylating enzyme FAM/USP9X. Mouchantaf R, Azakir BA, McPherson PS, Millard SM, Wood SA, Angers A

The Journal of biological chemistry (2006) 281(50): 38738-47.

The FAM deubiquitylating enzyme localizes to multiple points of protein trafficking in epithelia, where it associates with Ecadherin and beta-catenin. Murray RZ, Jolly LA, Wood SA

Molecular biology of the cell (2004) 15(4): 1591-9.