

USP9X antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI14384**Specification****USP9X antibody - C-terminal region - Product Information**

Application	WB, IHC
Primary Accession	O93008
Other Accession	NM_001039590 , NP_001034679
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Dog
Predicted	Human, Mouse, Rat, Rabbit, Pig, Chicken, Horse, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	292kDa KDa

USP9X antibody - C-terminal region - Additional Information**Gene ID 8239**

Alias Symbol **DFFRX, FAF, FAM**

Other Names

Probable ubiquitin carboxyl-terminal hydrolase FAF-X, 3.4.19.12, Deubiquitinating enzyme FAF-X, Fat facets in mammals, hFAM, Fat facets protein-related, X-linked, Ubiquitin thioesterase FAF-X, Ubiquitin-specific protease 9, X chromosome, Ubiquitin-specific-processing protease FAF-X, USP9X, DFFRX, FAM, USP9

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-USP9X antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

USP9X antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

USP9X antibody - C-terminal region - Protein Information

Name USP9X {ECO:0000303|PubMed:18254724, ECO:0000312|HGNC:HGNC:12632}

Function

Deubiquitinase involved both in the processing of ubiquitin precursors and of ubiquitinated proteins (PubMed:18254724, PubMed:19135894, PubMed:22371489)

[target="_blank">22371489](#), PubMed: [target="_blank">25944111](http://www.uniprot.org/citations/25944111), PubMed: [target="_blank">29626158](http://www.uniprot.org/citations/29626158), PubMed: [target="_blank">30914461](http://www.uniprot.org/citations/30914461), PubMed: [target="_blank">37454738](http://www.uniprot.org/citations/37454738)). May therefore play an important regulatory role at the level of protein turnover by preventing degradation of proteins through the removal of conjugated ubiquitin (PubMed: [target="_blank">18254724](http://www.uniprot.org/citations/18254724), PubMed: [target="_blank">19135894](http://www.uniprot.org/citations/19135894), PubMed: [target="_blank">22371489](http://www.uniprot.org/citations/22371489), PubMed: [target="_blank">25944111](http://www.uniprot.org/citations/25944111), PubMed: [target="_blank">29626158](http://www.uniprot.org/citations/29626158), PubMed: [target="_blank">30914461](http://www.uniprot.org/citations/30914461), PubMed: [target="_blank">37454738](http://www.uniprot.org/citations/37454738)). Specifically hydrolyzes 'Lys-11', followed by 'Lys-63', 'Lys-48' and 'Lys-6'-linked polyubiquitins chains (PubMed: [target="_blank">30914461](http://www.uniprot.org/citations/30914461)). Essential component of TGF-beta/BMP signaling cascade (PubMed: [target="_blank">19135894](http://www.uniprot.org/citations/19135894)). Specifically deubiquitinates monoubiquitinated SMAD4, opposing the activity of E3 ubiquitin-protein ligase TRIM33 (PubMed: [target="_blank">19135894](http://www.uniprot.org/citations/19135894)). Deubiquitinates alkylation repair enzyme ALKBH3 (PubMed: [target="_blank">25944111](http://www.uniprot.org/citations/25944111)). OTUD4 recruits USP7 and USP9X to stabilize ALKBH3, thereby promoting the repair of alkylated DNA lesions (PubMed: [target="_blank">25944111](http://www.uniprot.org/citations/25944111)). Deubiquitinates RNA demethylase enzyme ALKBH5, promoting its stability (PubMed: [target="_blank">37454738](http://www.uniprot.org/citations/37454738)). Deubiquitinates mTORC2 complex component RICTOR at 'Lys-294' by removing 'Lys-63'-linked polyubiquitin chains, stabilizing RICTOR and enhancing its binding to MTOR, thus promoting mTORC2 complex assembly (PubMed: [target="_blank">33378666](http://www.uniprot.org/citations/33378666)). Regulates chromosome alignment and segregation in mitosis by regulating the localization of BIRC5/survivin to mitotic centromeres (PubMed: [target="_blank">16322459](http://www.uniprot.org/citations/16322459)). Involved in axonal growth and neuronal cell migration (PubMed: [target="_blank">24607389](http://www.uniprot.org/citations/24607389)). Regulates cellular clock function by enhancing the protein stability and transcriptional activity of the core circadian protein BMAL1 via its deubiquitinating activity (PubMed: [target="_blank">29626158](http://www.uniprot.org/citations/29626158)). Acts as a regulator of peroxisome import by mediating deubiquitination of PEX5: specifically deubiquitinates PEX5 monoubiquitinated at 'Cys-11' following its retrotranslocation into the cytosol, resetting PEX5 for a subsequent import cycle (PubMed: [target="_blank">22371489](http://www.uniprot.org/citations/22371489)). Deubiquitinates PEG10 (By similarity). Inhibits the activation of the Hippo signaling pathway via deubiquitination of AMOTL2 at 'Lys-347' and 'Lys-408' which prohibits its interaction with and activation of LATS2. Loss of LATS2 activation and subsequent loss of YAP1 phosphorylation results in an increase in YAP1-driven transcription of target genes (PubMed: [target="_blank">26598551](http://www.uniprot.org/citations/26598551), PubMed: [target="_blank">34404733](http://www.uniprot.org/citations/34404733)).

Cellular Location

Cytoplasm, cytosol. Cell projection, growth cone. Cytoplasm, cytoskeleton, cilium axoneme

Tissue Location

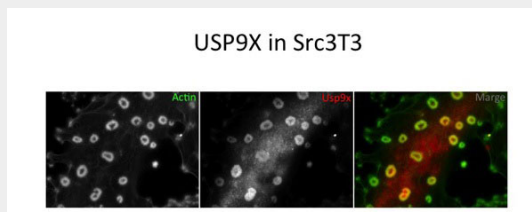
Widely expressed in embryonic and adult tissues.

USP9X antibody - C-terminal region - Protocols

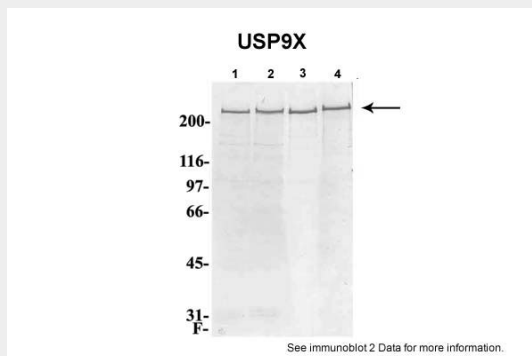
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

USP9X antibody - C-terminal region - Images



mouse 3T3 s



Sample Type: 1. total HeLa cell extract (100ug) 2. total HeLa cell extract incubated with HA-UbVME (100ug) 3. Rat Liver cytosolic extract (100ug) 4. Rat Liver cytosolic extract incubated with HA-UbVME (100ug) Primary Dilution: 1:1000
Secondary Antibody: alkaline phosphatase-conjugated anti-rabbit Secondary Dilution: 1:1000 Image
Submitted by: Andreia Carvalho BMC-OBF, Portugal

USP9X antibody - C-terminal region - References

Jones M.H., et al. Hum. Mol. Genet. 5:1695-1701(1996).
Jones M.H., et al. Hum. Mol. Genet. 6:334-335(1996).
Ross M.T., et al. Nature 434:325-337(2005).
Yu W., et al. Submitted (JUN-1998) to the EMBL/GenBank/DDBJ databases.
Rush J., et al. Nat. Biotechnol. 23:94-101(2005).

USP9X antibody - C-terminal region - Citations

- [Proteome-wide changes induced by the Hsp90 inhibitor, geldanamycin in anaplastic large cell lymphoma cells.](#)