

USP9X antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI14384

Specification

USP9X antibody - C-terminal region - Product Information

Application	WB, IHC
Primary Accession	Q93008
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:<a href="http://www.uniprot.org/citations/22371489"

target="_blank">>22371489, PubMed:>25944111, PubMed:>29626158, PubMed:>30914461, PubMed:>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:>18254724, PubMed:>19135894, PubMed:>22371489, PubMed:>25944111, PubMed:>29626158, PubMed:>30914461, PubMed:>37454738). Specifically hydrolyzes 'Lys-11'-, followed by 'Lys-63'-, 'Lys-48'- and 'Lys-6'- linked polyubiquitins chains (PubMed:>30914461). Essential component of TGF-beta/BMP signaling cascade (PubMed:>19135894). Specifically deubiquitinates monoubiquitinated SMAD4, opposing the activity of E3 ubiquitin-protein ligase TRIM33 (PubMed:>19135894). Deubiquitinates alkylation repair enzyme ALKBH3 (PubMed:>25944111). OTUD4 recruits USP7 and USP9X to stabilize ALKBH3, thereby promoting the repair of alkylated DNA lesions (PubMed:>25944111). Deubiquitinates RNA demethylase enzyme ALKBH5, promoting its stability (PubMed:>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:>33378666). Regulates chromosome alignment and segregation in mitosis by regulating the localization of BIRC5/survivin to mitotic centromeres (PubMed:>16322459). Involved in axonal growth and neuronal cell migration (PubMed:>24607389). Regulates cellular clock function by enhancing the protein stability and transcriptional activity of the core circadian protein BMAL1 via its deubiquitinating activity (PubMed:>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:>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:>26598551, PubMed:>34404733).

Cellular Location

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

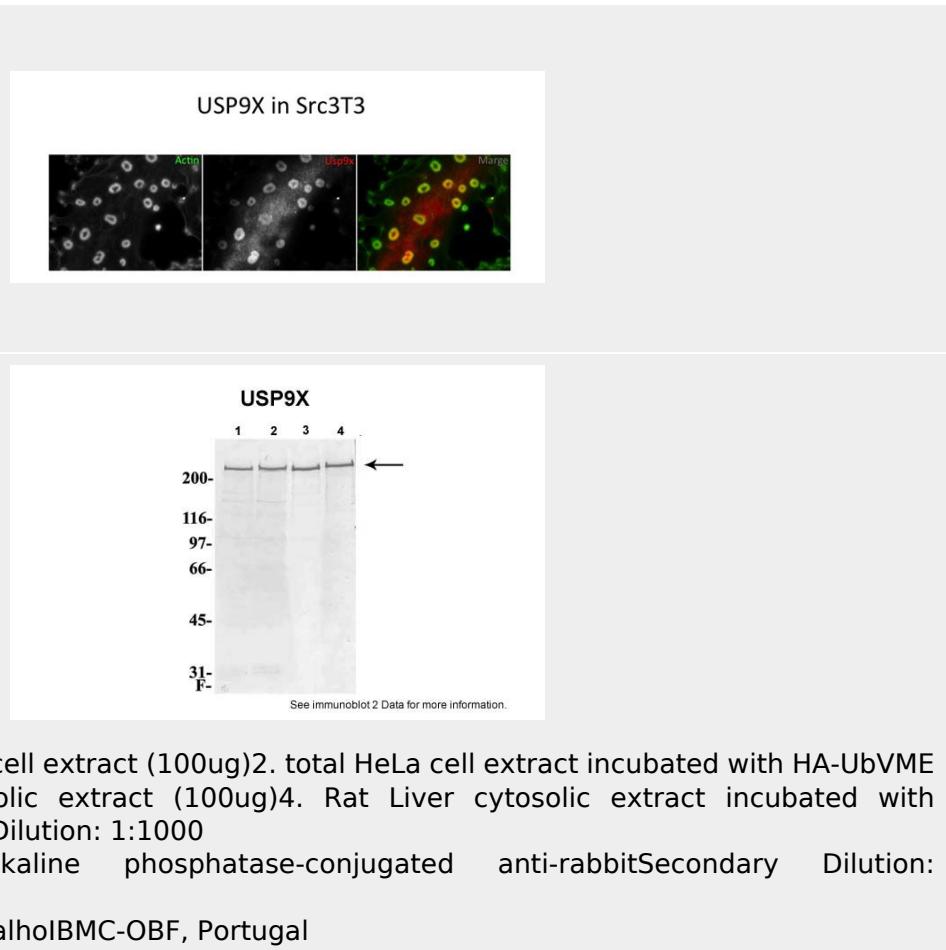
Tissue Location

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**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 434:325-327(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.](#)