

USP9X Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP59205**Specification****USP9X Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q93008
Reactivity	Rat, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	292 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human USP9X
Epitope Specificity	65-170/2570
Isotype	IgG
Purity	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm.
SIMILARITY	Belongs to the peptidase C19 family.
SUBUNIT	Interacts with SMAD4, MARK4, NUA1 and BIRC5/survivin.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

This gene is a member of the peptidase C19 family and encodes a protein that is similar to ubiquitin-specific proteases. Though this gene is located on the X chromosome, it escapes X-inactivation. Mutations in this gene have been associated with Turner syndrome. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.

USP9X Polyclonal Antibody - Additional Information**Gene ID** 8239**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 (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=12632) target="_blank">HGNC:12632), DFFRX, FAM, USP9

Target/Specificity

Widely expressed in embryonic and adult tissues.

Dilution

WB~1:1000
IHC-P~N/A
IHC-F~N/A
IF~1:50~200
E~N/A

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

USP9X Polyclonal Antibody - 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](http://www.uniprot.org/citations/18254724), PubMed: [19135894](http://www.uniprot.org/citations/19135894), PubMed: [22371489](http://www.uniprot.org/citations/22371489), PubMed: [25944111](http://www.uniprot.org/citations/25944111), PubMed: [29626158](http://www.uniprot.org/citations/29626158), PubMed: [30914461](http://www.uniprot.org/citations/30914461), PubMed: [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: [18254724](http://www.uniprot.org/citations/18254724), PubMed: [19135894](http://www.uniprot.org/citations/19135894), PubMed: [22371489](http://www.uniprot.org/citations/22371489), PubMed: [25944111](http://www.uniprot.org/citations/25944111), PubMed: [29626158](http://www.uniprot.org/citations/29626158), PubMed: [30914461](http://www.uniprot.org/citations/30914461), PubMed: [37454738](http://www.uniprot.org/citations/37454738)). Specifically hydrolyzes 'Lys-11', followed by 'Lys-63', 'Lys-48' and 'Lys-6' linked polyubiquitins chains (PubMed: [30914461](http://www.uniprot.org/citations/30914461)). Essential component of TGF-beta/BMP signaling cascade (PubMed: [19135894](http://www.uniprot.org/citations/19135894)). Specifically deubiquitinates monoubiquitinated SMAD4, opposing the activity of E3 ubiquitin-protein ligase TRIM33 (PubMed: [19135894](http://www.uniprot.org/citations/19135894)). Deubiquitinates alkylation repair enzyme ALKBH3 (PubMed: [25944111](http://www.uniprot.org/citations/25944111)). OTUD4 recruits USP7 and USP9X to stabilize ALKBH3, thereby promoting the repair of alkylated DNA lesions (PubMed: [25944111](http://www.uniprot.org/citations/25944111)). Deubiquitinates RNA demethylase enzyme ALKBH5, promoting its stability (PubMed: [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: [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: [16322459](http://www.uniprot.org/citations/16322459)). Involved in axonal growth and neuronal cell migration (PubMed: [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: [24607389](http://www.uniprot.org/citations/24607389)).

[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: [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: [26598551](http://www.uniprot.org/citations/26598551)), PubMed: [34404733](http://www.uniprot.org/citations/34404733)).

Cellular Location

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

Tissue Location

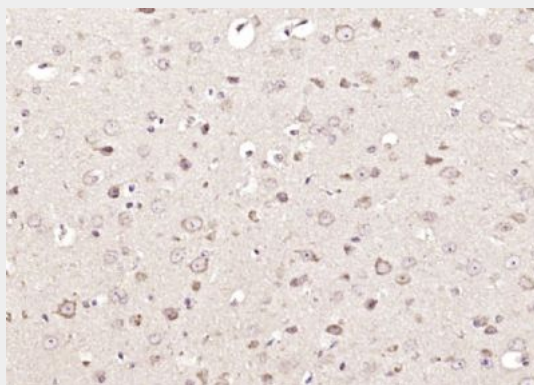
Widely expressed in embryonic and adult tissues.

USP9X Polyclonal Antibody - 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 Polyclonal Antibody - Images



Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (USP9X) Polyclonal Antibody, Unconjugated (bs-9266R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.