

Active Recombinant Human USP9X, GST-tagged

Cat. No. USP9X-184H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human USP9X (amino acid residues 1554-1995), fused with N-terminal GST, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1554-1995 a.a.
Description	USP9X acts by removing monoubiquitin from SMAD4, thereby permitting its association with phospho-SMAD2 and subsequent activation of TGF- β /SMAD-responsive gene targets. USP9X has also been shown to control AMP-activated protein kinase (AMPK)-related kinase activity through direct removal of non-canonical K29 and/or K33-linked ubiquitin chains (Sacco et al., 2010). USP9X can also stabilise levels of myeloid cell leukemia sequence 1 protein (MCL1) and thereby promotes cell survival. USP9X binds MCL1 and removes the Lys 48-linked polyubiquitin chains that normally mark MCL1 for proteasomal degradation.
Form	50 mM HEPES pH 7.5, 150 mM sodium chloride, 2 mM dithiothreitol, 10% glycerol
Bio-activity	Deubiquitylase Enzyme Assay: The activity of GST-USP9x was validated by determining the increase in fluorescence measured as a result of the enzyme catalysed cleavage of the fluorogenic substrate Ubiquitin-Rhodamine110-Glycine generating Ubiquitin and Rhodamine110-Glycine. Incubation of the substrate in the presence or absence of GST-USP9x was compared confirming the deubiquitylating

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activity of GST-USP9x.

Molecular Mass ~79 kDa

Purity >78% by SDS-PAGE

Storage 12 months at -70°C. Avoid multiple freeze/thaw cycles.

Concentration 0.5 mg/ml

GENE INFORMATION

Gene Name [USP9X ubiquitin specific peptidase 9, X-linked \[Homo sapiens \]](#)

Official Symbol USP9X

Synonyms

USP9X; ubiquitin specific peptidase 9, X-linked; ubiquitin specific peptidase 9, X linked (fat facets like, Drosophila) , ubiquitin specific protease 9, X chromosome (fat facets like Drosophila) , ubiquitin specific protease 9, X linked (fat facets like, Drosophila); probable ubiquitin carboxyl-terminal hydrolase FAF-X; DFFRX; FAF; hFAM; fat facets in mammals; ubiquitin thioesterase FAF-X; deubiquitinating enzyme FAF-X; ubiquitin thiolesterase FAF-X; fat facets protein related, X-linked; fat facets protein-related, X-linked; Drosophila fat facets related, X-linked; ubiquitin-specific protease 9, X chromosome; ubiquitin-specific processing protease FAF-X; ubiquitin-specific-processing protease FAF-X; ubiquitin specific protease 9, X chromosome (fat facets-like Drosophila); FAM;

Gene ID [8239](#)

mRNA Refseq [NM_001039590](#)

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Protein Refseq	NP_001034679
MIM	300072
UniProt ID	Q93008
Chromosome Location	Xp11.4
Function	co-SMAD binding; cysteine-type endopeptidase activity; cysteine-type peptidase activity; peptidase activity; protein binding; ubiquitin thiolesterase activity;

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