Recombinant Human USP9X Protein (K1554-N1995), Tag Free

Cat. No. USP9X-0344H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human USP9X(K1554-N1995) Protein was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	K1554-N1995
Description	Deubiquitinase involved both in the processing of ubiquitin precursors and of ubiquitinated proteins. May therefore play an important regulatory role at the level of protein turnover by preventing degradation of proteins through the removal of conjugated ubiquitin. Specifically hydrolyzes 'Lys-63'-, 'Lys-48'-, 'Lys-29'- and 'Lys-33'-linked polyubiquitins chains. Essential component of TGF-beta/BMP signaling cascade. Specifically deubiquitinates monoubiquitinated SMAD4, opposing the activity of E3 ubiquitin-protein ligase TRIM33. Deubiquitinates alkylation repair enzyme ALKBH3. OTUD4 recruits USP7 and USP9X to stabilize ALKBH3, thereby promoting the repair of alkylated DNA lesions. 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. Regulates chromosome alignment and segregation in mitosis by regulating the localization of BIRC5/survivin to mitotic centromeres. Involved in axonal growth and neuronal cell migration. Regulates cellular clock function by enhancing the protein stability and transcriptional activity of the core circadian protein ARNTL/BMAL1 via its deubiquitinating activity. Deubiquitinates PEG10.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Form	Liquid
Endotoxin	< 0.01 EU per μg of the protein
Purity	90%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol
Shipping	It is shipped out with blue ice.

GENE INFORMATION

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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	facets-like Drosophila); FAM;
Gene ID	8239
mRNA Refseq	NM_001039590
Protein Refseq	NP_001034679
MIM	300072
UniProt ID	Q93008

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA