

## USP9Y Protein, Human

Cat. No.:	HY-P701434
Synonyms:	USP9Y; Probable ubiquitin carboxyl-terminal hydrolase FAF-Y; Deubiquitinating enzyme FAF-Y; Fat facets protein-related; Y-linked; Ubiquitin thioesterase FAF-Y; Ubiquitin-specific protease 9; Y chromosome; Ubiquitin-specific-processing protease FAF-Y
Species:	Human
Source:	E. coli
Accession:	O00507 (R1553-S1972)
Gene ID:	8287
Molecular Weight:	

### PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

Background	The USP9Y Protein emerges as a versatile ubiquitin-protein or polyubiquitin hydrolase, playing a crucial role in the processing of both ubiquitin precursors and ubiquitinated proteins. This multifaceted function positions USP9Y as a key regulator in protein turnover, where it prevents the degradation of proteins by efficiently removing conjugated ubiquitin moieties. Additionally, USP9Y serves as an essential component within the TGF-beta/BMP signaling cascade. Notably, it acts as a deubiquitinase for monoubiquitinated SMAD4, countering the activity of the E3 ubiquitin-protein ligase TRIM33. This deubiquitination process restores the competency of SMAD4 to form a stable complex with activated SMAD2/3, thereby facilitating the unhindered progression of the TGF-beta/BMP signaling cascade. In essence, USP9Y's regulatory prowess emerges as a critical factor in orchestrating the dynamic balance of protein degradation and signaling within the cellular landscape.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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