

USP11 Protein, Human (Sf9)

Cat. No.:	HY-P702063
Synonyms:	USP11; Ubiquitin carboxyl-terminal hydrolase 11; Deubiquitinating enzyme 11; Ubiquitin thioesterase 11; Ubiquitin-specific-processing protease 11
Species:	Human
Source:	Sf9 insect cells
Accession:	P51784 (A2-N963)
Gene ID:	/
Molecular Weight:	Approximately 109.8 kDa

PROPERTIES

Biological Activity	The fundamental role of USP11 is specific removal of ubiquitin from substrates. USP11 catalyses the ubiquitin from the substrate Ub-Rho110 to release fluorophores. Rho110 will release 535 nM emission light under the excitation condition of 485 nM. The signal of which can be quickly and reliably captured using a microplate reader.
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	USP11 protein functions as a protease with the capability to remove conjugated ubiquitin from target proteins and polyubiquitin chains, inhibiting their degradation by the proteasome. Exhibiting a preference for 'Lys-6' and 'Lys-63'-linked ubiquitin chains, USP11 shows lower activity towards 'Lys-11' and 'Lys-33'-linked chains, and minimal activity with 'Lys-27', 'Lys-29', and 'Lys-48'-linked chains in vitro. Beyond its proteolytic role, USP11 is integral to the regulation of pathways leading to NF-kappa-B activation and plays a crucial role in DNA repair following double-stranded DNA breaks. Additionally, it acts as a chromatin regulator through association with the Polycomb group (PcG) multiprotein PRC1-like complex, potentially by deubiquitinating components of this complex. USP11's involvement in cell proliferation is highlighted by its ability to deubiquitinate phosphorylated E2F1, further emphasizing its multifaceted role in cellular processes.
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Caution: Product has not been fully validated for medical applications. For research use only.

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