

# USP11 Antibody (N-term)

Purified Mouse Monoclonal Antibody (Mab) Catalog # AW5070

## **Product Information**

FC, WB
<u>P51784</u>
Human
Mouse
Monoclonal
109817
IgG1,к
HUMAN

## **Additional Information**

Antigen Region	32-300
Other Names	Ubiquitin carboxyl-terminal hydrolase 11, Deubiquitinating enzyme 11, Ubiquitin thioesterase 11, Ubiquitin-specific-processing protease 11, USP11, UHX1
Dilution	FC~~1:25 WB~~1:1000
Target/Specificity	This USP11 antibody is generated from a mouse immunized with a KLH conjugated synthetic peptide between 32-300 amino acids from the N-terminal region of human USP11.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	USP11 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

### **Protein Information**

Name	USP11
Synonyms	UHX1
Function	Protease that can remove conjugated ubiquitin from target proteins and polyubiquitin chains (PubMed: <u>12084015</u> , PubMed: <u>15314155</u> ,

	PubMed: <u>17897950</u> , PubMed: <u>19874889</u> , PubMed: <u>20233726</u> , PubMed: <u>24724799</u> , PubMed: <u>28992046</u> ). Inhibits the degradation of target proteins by the proteasome (PubMed: <u>12084015</u> ). Cleaves preferentially 'Lys-6' and 'Lys- 63'-linked ubiquitin chains. Has lower activity with 'Lys-11' and 'Lys- 33'-linked ubiquitin chains, and extremely low activity with 'Lys-27', 'Lys-29' and 'Lys-48'-linked ubiquitin chains (in vitro) (PubMed: <u>24724799</u> ). Plays a role in the regulation of pathways leading to NF-kappa-B activation (PubMed: <u>17897950</u> , PubMed: <u>19874889</u> ). Plays a role in the regulation of DNA repair after double-stranded DNA breaks (PubMed: <u>15314155</u> , PubMed: <u>20233726</u> ). Acts as a chromatin regulator via its association with the
	Polycomb group (PCG) multiprotein PRC1-like complex; may act by deubiquitinating components of the PRC1-like complex (PubMed: <u>20601937</u> ). Promotes cell proliferation by deubiquitinating phosphorylated E2F1 (PubMed: <u>28992046</u> ).
Cellular Location	Nucleus. Cytoplasm. Chromosome. Note=Predominantly nuclear (PubMed:12084015, PubMed:15314155). Associates with chromatin (PubMed:20233726, PubMed:20601937).

## Background

Protease that can remove conjugated ubiquitin from target proteins and polyubiquitin chains. Inhibits the degradation of target proteins by the proteasome. Plays a role in the regulation of pathways leading to NF-kappa-B activation. Plays a role in the regulation of DNA repair after double-stranded DNA breaks.

### References

Ross M.T.,et al.Nature 434:325-337(2005). Ideguchi H.,et al.Biochem. J. 367:87-95(2002). Swanson D.A.,et al.Hum. Mol. Genet. 5:533-538(1996). Schoenfeld A.R.,et al.Mol. Cell. Biol. 24:7444-7455(2004). Yamaguchi T.,et al.J. Biol. Chem. 282:33943-33948(2007).

#### Images



Western blot analysis of lysates from Jurkat, Hela cell line (from left to right), using USP11 Antibody (C-term R565)(Cat. #AW5070). AW5070 was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.

Flow cytometric analysis of Hela cells using USP11 Antibody (C-term R565)(green, Cat#AW5070) compared to an isotype control of mouse IgG1(blue). AW5070 was diluted at 1:25 dilution. An Alexa Fluor® 488 goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody.



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