

USP11 Polyclonal Antibody

Catalog # AP73011

Product Information

Application	IF, ICC, WB, E
Primary Accession	P51784
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	109817

Additional Information

Other Names	USP11; UHX1; Ubiquitin carboxyl-terminal hydrolase 11; Deubiquitinating enzyme 11; Ubiquitin thioesterase 11; Ubiquitin-specific-processing protease 11
Dilution	IF~~IF: 1:50-200 Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications. ICC~~N/A WB~~IF: 1:50-200 Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications. E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

Protein Information

Name	USP11
Synonyms	UHX1
Function	Protease that can remove conjugated ubiquitin from target proteins and polyubiquitin chains (PubMed: 12084015 , PubMed: 15314155 , PubMed: 17897950 , PubMed: 19874889 , PubMed: 20233726 , PubMed: 24724799 , PubMed: 28992046). Inhibits the degradation of target proteins by the proteasome (PubMed: 12084015). 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: 24724799). Plays a role in the regulation of pathways leading to NF-kappa-B activation (PubMed: 17897950 , PubMed: 19874889). Plays a role in the regulation of DNA repair after double-stranded DNA breaks (PubMed: 15314155 , PubMed: 20233726). 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: 20601937). Promotes cell proliferation by deubiquitinating phosphorylated E2F1

(PubMed:[28992046](#)).

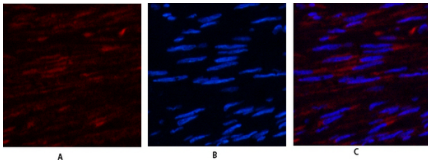
Cellular Location

Nucleus. Cytoplasm. Chromosome. Note=Predominantly nuclear (PubMed:[12084015](#), PubMed:[15314155](#)). Associates with chromatin (PubMed:[20233726](#), PubMed:[20601937](#)).

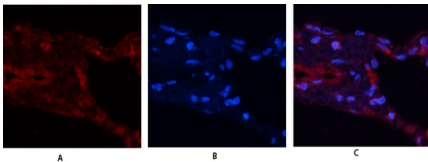
Background

Protease that can remove conjugated ubiquitin from target proteins and polyubiquitin chains (PubMed:[12084015](#), PubMed:[15314155](#), PubMed:[17897950](#), PubMed:[19874889](#), PubMed:[20233726](#), PubMed:[24724799](#)). Inhibits the degradation of target proteins by the proteasome (PubMed:[12084015](#)). 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:[24724799](#)). Plays a role in the regulation of pathways leading to NF-kappa-B activation (PubMed:[17897950](#), PubMed:[19874889](#)). Plays a role in the regulation of DNA repair after double-stranded DNA breaks (PubMed:[15314155](#), PubMed:[20233726](#)). 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:[20601937](#)).

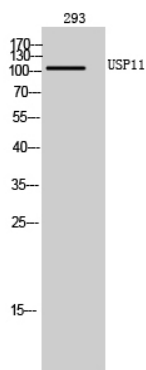
Images



Immunofluorescence analysis of human-uterus tissue. 1, USP11 Polyclonal Antibody (red) was diluted at 1:200 (4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50 min). 3, Picture B: DAPI (blue) 10 min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



Immunofluorescence analysis of human-lung tissue. 1, USP11 Polyclonal Antibody (red) was diluted at 1:200 (4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50 min). 3, Picture B: DAPI (blue) 10 min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



Western Blot analysis of 293 cells using USP11 Polyclonal Antibody. Secondary antibody was diluted at 1:20000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Invent biotech, MN, USA).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.