10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KD-Validated Anti-Ubiquitin Specific Peptidase 11 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1386

Specification

KD-Validated Anti-Ubiquitin Specific Peptidase 11 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	P51784
Reactivity	**Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 110 kDa; observed, 110 kDa KDa**
Gene Name	**USP11**
Aliases	**USP11; Ubiquitin Specific Peptidase 11; UHX1; Ubiquitin Carboxyl-Terminal Hydrolase 11; Deubiquitinating Enzyme 11 3 4 Ubiquitin Thioesterase 11; Ubiquitin Carboxyl-Terminal Hydrolase, X-Linked; Ubiquitin-Specific Processing Protease 11; Ubiquitin-Specific-Processing Protease 11; Ubiquitin Specific Protease 11; Ubiquitin Thiolesterase 11; EC 3.4.19.12; EC 3.1.2.15**
Immunogen	**A synthesized peptide derived from human USP11**

KD-Validated Anti-Ubiquitin Specific Peptidase 11 Rabbit Monoclonal Antibody - Additional Information

Other Names
Ubiquitin carboxyl-terminal hydrolase 11, 3.4.19.12, Deubiquitinating enzyme 11, Ubiquitin thioesterase 11, Ubiquitin-specific-processing protease 11, USP11, UHX1

KD-Validated Anti-Ubiquitin Specific Peptidase 11 Rabbit Monoclonal Antibody - 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).

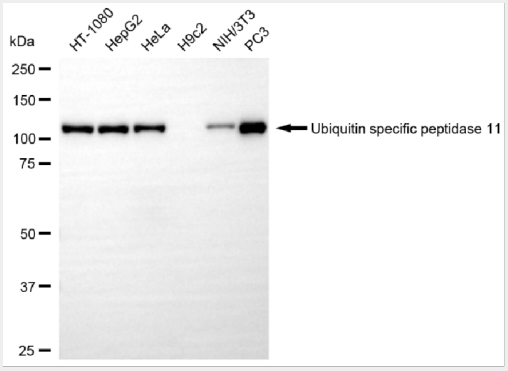
Cellular Location
Nucleus. Cytoplasm. Chromosome. Note=Predominantly nuclear (PubMed:12084015, PubMed:15314155). Associates with chromatin (PubMed:20233726, PubMed:20601937).

KD-Validated Anti-Ubiquitin Specific Peptidase 11 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-Ubiquitin Specific Peptidase 11 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-ubiquitin specific peptidase 11 antibody (Cat#AGI1386). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-ubiquitin specific peptidase 11 antibody (Cat#AGI1386, 1:5,000) and

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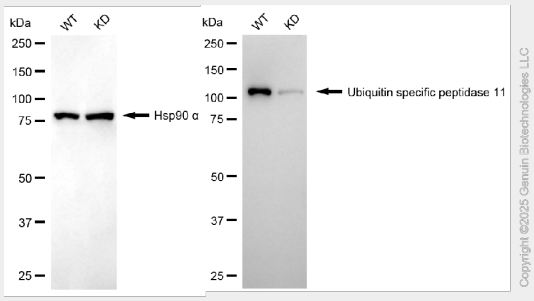
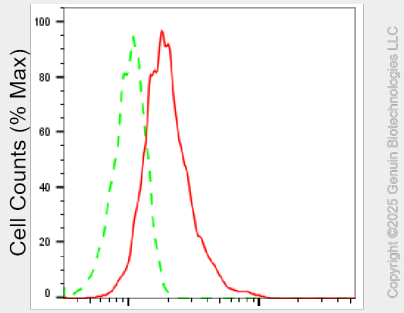
HRP-conjugated goat anti-rabbit secondary antibody respectively.

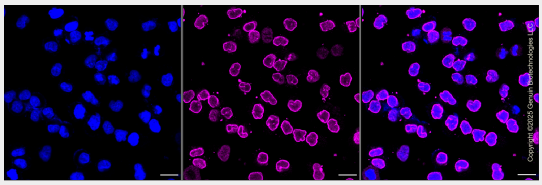


Western blotting analysis using anti-ubiquitin specific peptidase 11 antibody (Cat#AGI1386). Ubiquitin specific peptidase 11 expression in wild type (WT) and ubiquitin specific peptidase 11 (USP11) knockdown (KD) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-ubiquitin specific peptidase 11 antibody (Cat#AGI1386, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Ubiquitin specific peptidase 11-Alexa Fluor® 647

Flow cytometric analysis of Ubiquitin specific peptidase 11 expression in HeLa cells using anti-Ubiquitin specific peptidase 11 antibody (Cat#AGI1386, 1:2,000). Green, isotype control; red, Ubiquitin specific peptidase 11.



Immunocytochemical staining of HeLa cells with anti-Ubiquitin specific peptidase 11 antibody (Cat#AGI1386, 1:1,000). Nuclei were stained blue with DAPI; Ubiquitin specific peptidase 11 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar, 20 µm.