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USP11 Antibody (C-term R565)

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM2260b

Product Information

Application	WB, FC, E
Primary Accession	P51784
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1,κ
Clone Names	1220CT620.193.189
Calculated MW	109817

Additional Information

Other Names	Ubiquitin carboxyl-terminal hydrolase 11, Deubiquitinating enzyme 11, Ubiquitin thioesterase 11, Ubiquitin-specific-processing protease 11, USP11, UHX1
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.
Dilution	WB~~1:1000 FC~~1:25 E~~Use at an assay dependent concentration.
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 (C-term R565) 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: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).

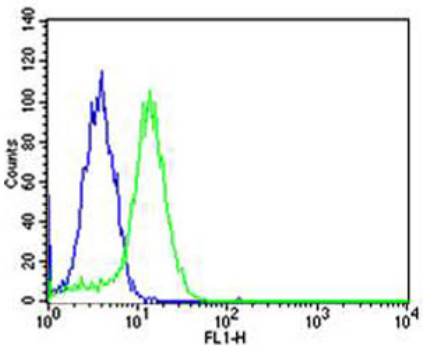
Background

Protease that can remove conjugated ubiquitin from target proteins and polyubiquitin chains. 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

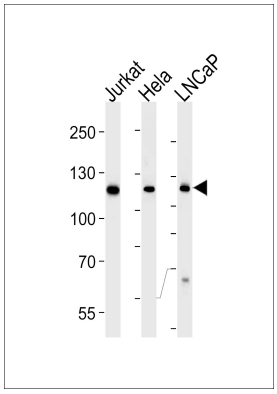
Ross M.T.,et al.Nature 434:325-337(2005).
Ideguchi H.,et al.Biochem. J. 367:87-95(2002).
Swanson D.A.,et al.Hum. Mol. Genet. 5:533-538(1996).
Schoenfeld A.R.,et al.Mol. Cell. Biol. 24:7444-7455(2004).
Yamaguchi T.,et al.J. Biol. Chem. 282:33943-33948(2007).

Images



Flow cytometric analysis of Hela cells using USP11 Antibody (C-term R565)(green, Cat#AM2260b) compared to an isotype control of mouse IgG1(blue). AM2260b was diluted at 1:25 dilution. An Alexa Fluor® 488 goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody.

Western blot analysis of lysates from Jurkat, Hela, LNCaP cell line (from left to right) using USP11 Antibody (C-term R565) (Cat. # AM2260b). AM2260b was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:3000 dilution was used as the secondary antibody. Lysates at 35µg per lane.



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