

Goat Anti-USP11 / UHX1 Antibody
Peptide-affinity purified goat antibody
Catalog # AF2137a**Specification**

Goat Anti-USP11 / UHX1 Antibody - Product Information

Application	WB
Primary Accession	P51784
Other Accession	NP_004642 , 8237
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	109817

Goat Anti-USP11 / UHX1 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

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-USP11 / UHX1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-USP11 / UHX1 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:28992046, 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). Promotes cell proliferation by deubiquitinating phosphorylated E2F1 (PubMed:28992046).

Cellular Location

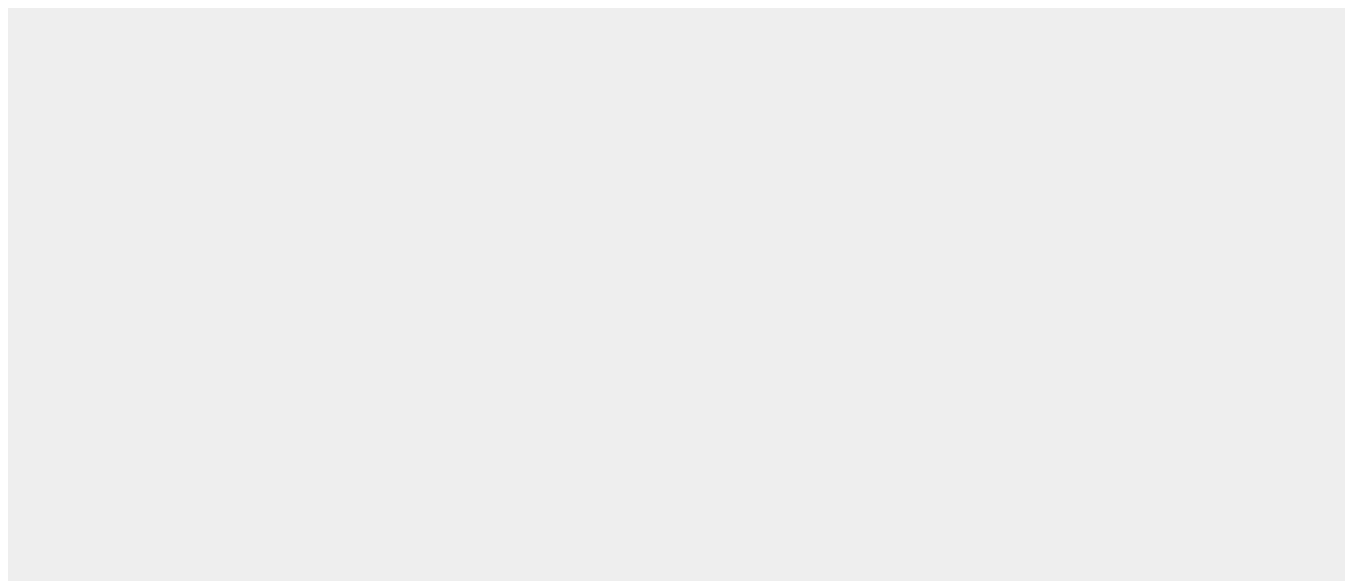
Nucleus. Cytoplasm. Chromosome. Note=Predominantly nuclear (PubMed:12084015, PubMed:15314155). Associates with chromatin (PubMed:20601937, PubMed:20233726).

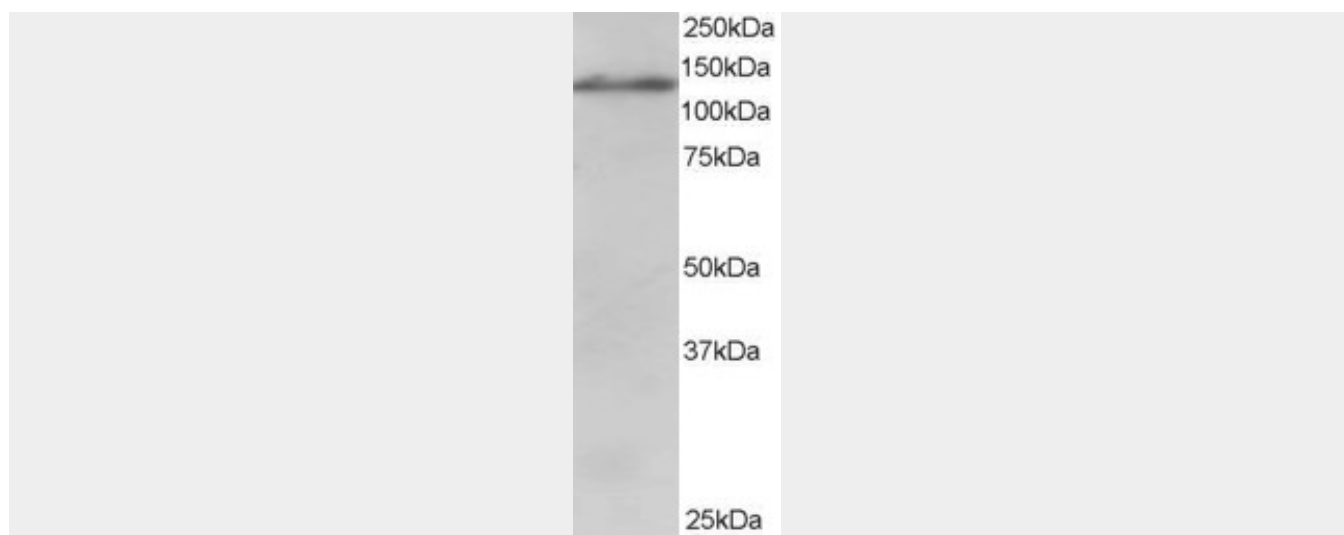
Goat Anti-USP11 / UHX1 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-USP11 / UHX1 Antibody - Images





AF2137a staining (1 µg/ml) of Jurkat lysate (RIPA buffer, 30 µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

Goat Anti-USP11 / UHX1 Antibody - Background

Protein ubiquitination controls many intracellular processes, including cell cycle progression, transcriptional activation, and signal transduction. This dynamic process, involving ubiquitin conjugating enzymes and deubiquitinating enzymes, adds and removes ubiquitin. Deubiquitinating enzymes are cysteine proteases that specifically cleave ubiquitin from ubiquitin-conjugated protein substrates. This gene encodes a deubiquitinating enzyme which lies in a gene cluster on chromosome Xp11.23

Goat Anti-USP11 / UHX1 Antibody - References

Ubiquitin-specific proteases 7 and 11 modulate Polycomb regulation of the INK4a tumour suppressor. Maertens GN, et al. EMBO J, 2010 Aug 4. PMID 20601937.
 USP11 negatively regulates TNFalpha-induced NF-kappaB activation by targeting on IkappaBalpha. Sun W, et al. Cell Signal, 2010 Mar. PMID 19874889.
 Defining the human deubiquitinating enzyme interaction landscape. Sowa ME, et al. Cell, 2009 Jul 23. PMID 19615732.
 USP11 stabilizes HPV-16E7 and further modulates the E7 biological activity. Lin CH, et al. J Biol Chem, 2008 Jun 6. PMID 18408009.
 The deubiquitinating enzyme USP11 controls an IkappaB kinase alpha (IKKalpha)-p53 signaling pathway in response to tumor necrosis factor alpha (TNFalpha). Yamaguchi T, et al. J Biol Chem, 2007 Nov 23. PMID 17897950.