

Anti-USP33 antibody ab237510

[1 References](#) [3 Images](#)

Overview

Product name	Anti-USP33 antibody
Description	Rabbit polyclonal to USP33
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, IHC-P, WB
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment corresponding to Human USP33 aa 251-550. Database link: Q8TEY7
Positive control	WB: HeLa whole cell lysate. IHC-P: Human prostate cancer tissue. ICC/IF: HepG2 cells.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol (glycerin, glycerine), PBS
Purity	Protein G purified
Purification notes	Purity greater than 95%.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab237510 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		1/50 - 1/200.
IHC-P		1/20 - 1/200.
WB		1/500 - 1/5000. Predicted molecular weight: 107 kDa.

Target

Function

Deubiquitinating enzyme involved in various processes such as cellular migration and beta-2 adrenergic receptor/ADRB2 recycling. Involved in cell migration via its interaction with intracellular domain of ROBO1, leading to regulate the Slit signaling. Plays a role in commissural axon guidance cross the ventral midline of the neural tube in a Slit-dependent manner, possibly by mediating the deubiquitination of ROBO1. Acts as a regulator of G-protein coupled receptor (GPCR) signaling by mediating the deubiquitination of beta-arrestins (ARRB1 and ARRB2) and beta-2 adrenergic receptor (ADRB2). Plays a central role in ADRB2 recycling and resensitization after prolonged agonist stimulation by constitutively binding ADRB2, mediating deubiquitination of ADRB2 and inhibiting lysosomal trafficking of ADRB2. Upon dissociation, it is probably transferred to the translocated beta-arrestins, leading to beta-arrestins deubiquitination and disengagement from ADRB2. This suggests the existence of a dynamic exchange between the ADRB2 and beta-arrestins. Deubiquitinates DIO2, thereby regulating thyroid hormone regulation. Mediates deubiquitination of both 'Lys-48'-and 'Lys-63'-linked polyubiquitin chains.

Tissue specificity

Widely expressed.

Sequence similarities

Belongs to the peptidase C19 family. USP20/USP33 subfamily.
Contains 2 DUSP domains.
Contains 1 UBP-type zinc finger.

Domain

The UBP-type zinc finger binds 3 zinc ions. However, it does not bind ubiquitin, probably because the conserved Arg in position 86 is replaced by a Glu residue.

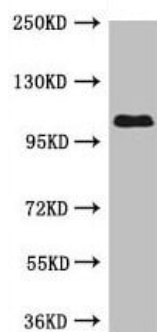
Post-translational modifications

Ubiquitinated via a VHL-dependent pathway for proteasomal degradation.

Cellular localization

Cytoplasm > perinuclear region. According to PubMed:12865408, it localizes in the endoplasmic reticulum; however the relevance of such result is unclear.

Images



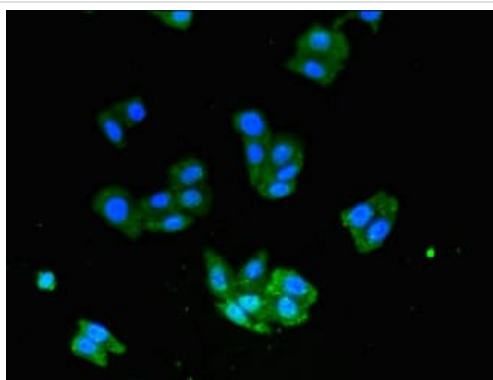
Western blot - Anti-USP33 antibody (ab237510)

Anti-USP33 antibody (ab237510) at 1/500 dilution + HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Secondary

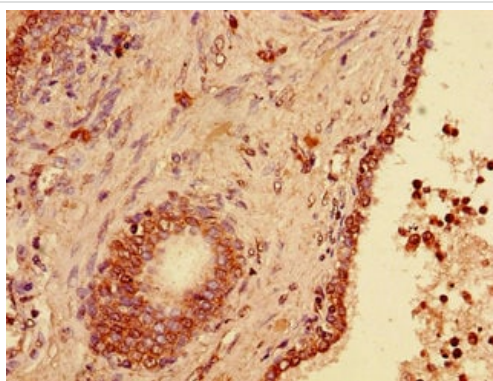
Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 107 kDa



Immunocytochemistry/ Immunofluorescence - Anti-USP33 antibody (ab237510)

HepG2 (human liver hepatocellular carcinoma cell line) cells stained for USP33 (green) at 1/100 dilution in ICC/IF, followed by Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG (H+L) secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-USP33 antibody (ab237510)

Paraffin-embedded human prostate cancer tissue stained for USP33 at 1/100 dilution in immunohistochemical analysis.

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