


Anti-USP1 antibody ab84772

[1 References](#) [1 Image](#)

Overview

Product name	Anti-USP1 antibody
Description	Rabbit polyclonal to USP1
Host species	Rabbit
Tested applications	Suitable for: IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Rabbit, Horse, Chicken, Guinea pig, Cow, Dog, Turkey, Pig, Chimpanzee, Rhesus monkey, Gorilla, Orangutan 
Immunogen	Synthetic peptide corresponding to a region between residue 450 and 500 of human USP1 (NP_003359.3)
Positive control	Human controls: Anaplastic Thyroid Carcinoma, Breast Carcinoma, Prostate Carcinoma, Small Cell Lung Cancer
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. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 6.8 Preservative: 0.09% Sodium azide Constituents: 0.1% BSA, Tris buffered saline
Purity	Immunogen affinity purified
Purification notes	ab84772 was affinity purified using an epitope specific to USP1 immobilized on solid support.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab84772 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
IHC-P		

Application notes

IHC-P: 1/100 - 1/500.

Epitope exposure is recommended.

Epitope exposure with citrate or tris-EDTA pH9.0 buffer will enhance staining.

Likely to work with frozen sections.

Not yet tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

Target

Function

Negative regulator of DNA damage repair which specifically deubiquitinates monoubiquitinated FANCD2. Also involved in PCNA-mediated translesion synthesis (TLS) by deubiquitinating monoubiquitinated PCNA. Has almost no deubiquitinating activity by itself and requires the interaction with WDR48 to have a high activity.

Sequence similarities

Belongs to the peptidase C19 family.

Developmental stage

Cell cycle-regulated. Highest level during S phase.

Post-translational modifications

Autocatalytic cleavage of USP1 following UV irradiation inactivates it leading to an increase in ubiquitinated PCNA, recruitment of POLH and translesion synthesis.

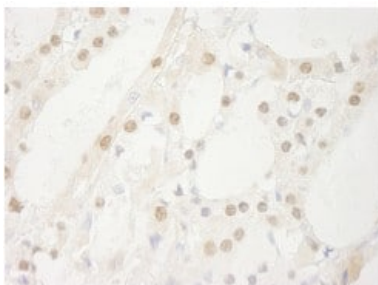
Ubiquitinated; leading to its subsequent proteasomal degradation.

Phosphorylated upon DNA damage, probably by ATM or ATR.

Cellular localization

Nucleus.

Images



Staining of USP1 by Immunohistochemistry on a formalin fixed, paraffin embedded section of human thyroid carcinoma using a 1/250 dilution of ab84772. Detection: DAB staining

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-USP1 antibody (ab84772)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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