

USP1 Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2130b**Specification**

USP1 Antibody (C-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	O94782
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	88207
Antigen Region	607-637

USP1 Antibody (C-term) - Additional Information**Gene ID** 7398**Other Names**

Ubiquitin carboxyl-terminal hydrolase 1, Deubiquitinating enzyme 1, hUBP, Ubiquitin thioesterase 1, Ubiquitin-specific-processing protease 1, USP1

Target/Specificity

This USP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 607-637 amino acids from the C-terminal region of human USP1.

Dilution

WB~~1:1000

IHC-P~~1:50~100

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation 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

USP1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

USP1 Antibody (C-term) - Protein Information**Name** USP1**Function** Negative regulator of DNA damage repair which specifically deubiquitinates

monoubiquitinated FANCD2 (PubMed:[15694335](#)). Also involved in PCNA-mediated translesion synthesis (TLS) by deubiquitinating monoubiquitinated PCNA (PubMed:[16531995](#), PubMed:[20147293](#)). Has almost no deubiquitinating activity by itself and requires the interaction with WDR48 to have a high activity (PubMed:[18082604](#), PubMed:[26388029](#)).

Cellular Location

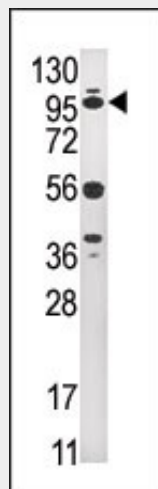
Nucleus.

USP1 Antibody (C-term) - Protocols

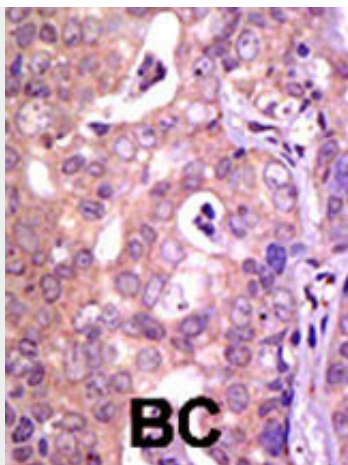
Provided below are standard protocols that you may find useful for product applications.

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

USP1 Antibody (C-term) - Images



Western blot analysis of anti-USP1 Pab (Cat. #AP2130b) in HepG2 cell line lysate (35ug/lane). USP1 (arrow) was detected using the purified Pab



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

USP1 Antibody (C-term) - Background

Deubiquitinating enzymes (DUBs) are capable of producing a free ubiquitin moiety from ubiquitin-fused precursors and ubiquitinated proteins in cells. DUBs possess conserved catalytic regions known as the 'cys domain' and the 'his domain.' There are 2 distinct families of DUBs: ubiquitin-specific processing proteases (UBPs, or USPs) and ubiquitin C-terminal hydrolases (UCHs).

USP1 Antibody (C-term) - References

- Puente, X.S., et al., Nat. Rev. Genet. 4(7):544-558 (2003).
Fujiwara, T., et al., Genomics 54(1):155-158 (1998).
D'Andrea, A., et al., Crit. Rev. Biochem. Mol. Biol. 33(5):337-352 (1998).