

USP1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP2130a**Specification**

USP1 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [O94782](#)**USP1 Antibody (N-term) Blocking Peptide - 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

The synthetic peptide sequence used to generate the antibody [AP2130a](/product/products/AP2130a) was selected from the N-term region of human USP1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

USP1 Antibody (N-term) Blocking Peptide - Protein Information**Name** USP1**Function**

Negative regulator of DNA damage repair which specifically deubiquitinates monoubiquitinated FANCD2 (PubMed: [15694335](http://www.uniprot.org/citations/15694335)). Also involved in PCNA-mediated translesion synthesis (TLS) by deubiquitinating monoubiquitinated PCNA (PubMed: [16531995](http://www.uniprot.org/citations/16531995), PubMed: [20147293](http://www.uniprot.org/citations/20147293)). Has almost no deubiquitinating activity by itself and requires the interaction with WDR48 to have a high activity (PubMed: [18082604](http://www.uniprot.org/citations/18082604), PubMed: [26388029](http://www.uniprot.org/citations/26388029)).

Cellular Location

Nucleus.

USP1 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

USP1 Antibody (N-term) Blocking Peptide - Images**USP1 Antibody (N-term) Blocking Peptide - 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 (N-term) Blocking Peptide - 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).