10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

USP1 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP2130b

Specification

USP1 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession O94782

USP1 Antibody (C-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 AP2130b was selected from the C-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 (C-term) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- Blocking Peptides

USP1 Antibody (C-term) Blocking Peptide - Images

USP1 Antibody (C-term) Blocking Peptide - Background

Deubiquitinating enzymes (DUBs) are capable of producing a free ubiquitin moiety from ubiquitin-fused precursors and ubiquitinylated 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) 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).