

**USP21 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP2147a****Specification**

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**USP21 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [Q9UK80](#)**USP21 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 27005**Other Names**

Ubiquitin carboxyl-terminal hydrolase 21, Deubiquitinating enzyme 21, Ubiquitin thioesterase 21, Ubiquitin-specific-processing protease 21, USP21, USP23

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP2147a](/product/products/AP2147a) was selected from the C-term region of human USP21. 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.

**USP21 Antibody (C-term) Blocking Peptide - Protein Information****Name** USP21 {ECO:0000303|PubMed:10799498, ECO:0000312|HGNC:HGNC:12620}**Function**

Deubiquitinates histone H2A, a specific tag for epigenetic transcriptional repression, thereby acting as a coactivator (By similarity). Deubiquitination of histone H2A releases the repression of di- and trimethylation of histone H3 at 'Lys-4', resulting in regulation of transcriptional initiation (By similarity). Regulates gene expression via histone H2A deubiquitination (By similarity). Deubiquitinates BAZ2A/TIP5 leading to its stabilization (PubMed: [26100909](http://www.uniprot.org/citations/26100909)). Also capable of removing NEDD8 from NEDD8 conjugates but has no effect on Sentrin-1 conjugates (PubMed: [10799498](http://www.uniprot.org/citations/10799498)). Also acts as a negative regulator of the ribosome quality control (RQC) by mediating deubiquitination of 40S ribosomal proteins RPS10/eS10 and RPS20/uS10, thereby antagonizing ZNF598-mediated 40S ubiquitination (PubMed: [32011234](http://www.uniprot.org/citations/32011234))

target="\_blank">32011234</a>).

**Cellular Location**

Cytoplasm. Nucleus

**Tissue Location**

Highly expressed in heart, pancreas and skeletal muscle. Also expressed in brain, placenta, liver and kidney, and at very low level in lung.

**USP21 Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**USP21 Antibody (C-term) Blocking Peptide - Images****USP21 Antibody (C-term) Blocking Peptide - Background**

USP21 is a ubiquitin-specific protease, an enzyme that removes ubiquitin from ubiquitinated proteins. The encoded protein belongs to the C19 peptidase family, also known as family 2 of ubiquitin carboxyl-terminal hydrolases. This protein has been reported to be capable of removing NEDD8 from NEDD8 conjugates.

**USP21 Antibody (C-term) Blocking Peptide - References**

Puente, X.S., et al., Nat. Rev. Genet. 4(7):544-558 (2003). Gong, L., et al., J. Biol. Chem. 275(19):14212-14216 (2000). Hillier, L.D., et al., Genome Res. 6(9):807-828 (1996). Smith, T.S., et al., Biochim. Biophys. Acta 1490 (1-2), 184-188 (2000).