

USP21 Antibody (N-Term)
Peptide-affinity purified goat antibody
Catalog # AF2787a

Specification

USP21 Antibody (N-Term) - Product Information

Application	E
Primary Accession	O9UK80
Other Accession	NP_036607.3 , 27005 , 30941 (mouse)
Predicted	Human, Mouse, Rat
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	62656

USP21 Antibody (N-Term) - Additional Information

Gene ID 27005

Other Names

Ubiquitin carboxyl-terminal hydrolase 21, 3.4.19.12, Deubiquitinating enzyme 21, Ubiquitin thioesterase 21, Ubiquitin-specific-processing protease 21, USP21, USP23

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

USP21 Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

USP21 Antibody (N-Term) - 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). Also capable of removing NEDD8 from NEDD8 conjugates but has no effect on Sentrin-1 conjugates (PubMed:<a

[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)).

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 (N-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](#)

USP21 Antibody (N-Term) - Images**USP21 Antibody (N-Term) - Background**

Reported variants represent identical protein: NP_001014443.1 NP_036607.3

USP21 Antibody (N-Term) - References

Identification of a novel isopeptidase with dual specificity for ubiquitin- and NEDD8-conjugated proteins. Gong L, Kamitani T, Millas S, Yeh ET. J Biol Chem. 2000 May 12;275(19):14212-6 PMID: 10799498