USP21 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	USP21, Polyclonal Antibody
Full Product Name	USP21, NT (P31) (Ubiquitin Carboxyl-terminal Hydrolase 21, Ubiquitin Thioesterase 21, Ubiquitin-specific-Processing Protease 21, Deubiquitinating Enzyme 21, PP1490, USP23) (MaxLight 405)
Product Gene Name	anti-USP21 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human USP21.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	62.656
OMIM	604729
3D Structure	ModBase 3D Structure for Q9UK80
Immunogen	Synthetic peptide selected from the N-terminal region of human USP21 (KLH).
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-USP21 antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-USP21 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-USP21 antibody	IHC: 1:50-1:100 FLISA: 1:1,000 WB: 1:100-1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-USP21 antibody	MBS6505271 is an antibody targeting USP21. Also known as USP21, NT (P31) (Ubiquitin Carboxyl-terminal Hydrolase 21, Ubiquitin Thioesterase 21, Ubiquitin-specific-Processing Protease 21, Deubiquitinating Enzyme 21, PP1490, USP23) (MaxLight 405). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-USP21 antibody	1. Puente, X.S., et al., Nat. Rev. Genet. 4(7):544-558 (2003). 2. Gong, L., et al., J. Biol. Chem. 275(19):14212-14216 (2000). 3. Hillier, L.D., et al., Genome Res. 6(9):807-828 (1996). 4. Smith, T.S., et al., Biochim. Biophys. Acta 1490(1-2), 184-188 (2000).
Other Notes	Small volumes of anti-USP21 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for USP21. It may not necessarily be applicable to this product.

NCBI GI #	74027267
NCBI GeneID	27005
NCBI Accession #	NP_036607
UniProt Primary Accession #	Q9UK80
UniProt Related Accession #	Q9UK80
GenBank Nucleotide #	NP_036607.3
NCBI Official Full Name	ubiquitin carboxyl-terminal hydrolase 21 isoform c
NCBI Official Synonym Full Names	ubiquitin specific peptidase 21
NCBI Official Symbol	USP21
NCBI Official Synonym Symbols	USP16; USP23
UniProt Protein Name	Ubiquitin carboxyl-terminal hydrolase 21
UniProt Synonym Protein Names	Deubiquitinating enzyme 21; Ubiquitin thioesterase 21; Ubiquitin-specific-processing protease 21
UniProt Gene Name	USP21
UniProt Synonym Gene Names	USP23
UniProt Entry Name	UBP21_HUMAN
NCBI Protein Information	ubiquitin carboxyl-terminal hydrolase 21
NCBI Summary for USP21	This gene encodes a member of the C19 peptidase family, also known as family 2 of ubiquitin carboxy-terminal hydrolases. The encoded protein cleaves ubiquitin from ubiquitinated proteins for recycling in intracellular protein degradation. The encoded protein is also able to release NEDD8, a ubiquitin-like protein, from NEDD8-conjugated proteins. This gene has been referred to as USP16 and USP23 but is now known as USP21. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2016]
UniProt Comments for USP21	USP21: Deubiquitinates histone H2A, a specific tag for epigenetic transcriptional repression, thereby acting as a coactivator. Deubiquitination of histone H2A releaves the repression of di- and trimethylation of histone H3 at 'Lys-4', resulting in regulation of transcriptional initiation. Regulates gene expression via histone H2A deubiquitination. Also capable of removing NEDD8 from NEDD8 conjugates but has no effect on Sentrin-1 conjugates. Belongs to the peptidase C19 family. USP21 subfamily. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Ubiquitin conjugating system; Protease; EC 3.4.19.12; Ubiquitin-specific protease Chromosomal Location of Human Ortholog: 1q22 Cellular Component: cytoplasm; nucleoplasm; plasma membrane Molecular Function: cysteine-type peptidase activity; metal ion binding; NEDD8-specific protease activity; protein binding; transcription coactivator activity; ubiquitin-specific protease activity Biological Process: histone deubiquitination; neurite development; positive regulation of transcription, DNA-dependent; transcription, DNA-dependent; ubiquitin-dependent protein catabolic process
Research Articles on USP21	**1.** USP21 binds and deubiquitinates FOXM1 in breast cancer cells.
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