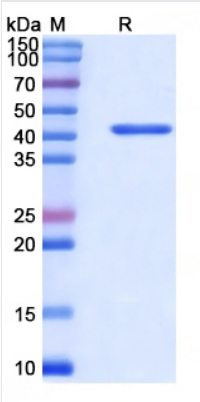
USP21 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	USP21, Recombinant Protein
Full Product Name	Recombinant Human USP21 Protein, N-His
Product Gene Name	USP21 recombinant protein
Product Synonym Names	Ubiquitin carboxyl-terminal hydrolase 21; Ubiquitin thioesterase 21; Deubiquitinating enzyme 21; USP21; Ubiquitin-specific-processing protease 21; USP23
Host	E coli
Form/Format	Lyophilized from a solution in PBS pH7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1% Mannitol.
Purity/Purification	>90% as determined by SDS-PAGE
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for one week. Store at -20 to -80 degree C for twelve months from the date of receipt.
Molecular Weight	61,122 Da
Sequence Positions	Thr220-Leu565
OMIM	604729
3D Structure	ModBase 3D Structure for Q9UK80
Species	Human
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for USP21 recombinant protein	Recombinant Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for USP21 recombinant protein	SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen
Related Product Information for USP21 recombinant protein	MBS1577104 is a recombinant protein targeting USP21. Also known as Recombinant Human USP21 Protein, N-His. Host: E coli.
Other Notes	Small volumes of USP21 recombinant protein 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.



SDS-Page of USP21 recombinant protein
SDS PAGE for Recombinant Human USP21 Protein

ADDITIONAL DETAILS

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

NCBI GI #	10720334
NCBI GeneID	27005
NCBI Accession #	Q9UK80.1
UniProt Primary Accession #	Q9UK80
UniProt Secondary Accession #	Q59H60; Q5BKT5; Q5VTW9; Q5VTX0; Q9BTV1; Q9HBS2; Q9NYN4
UniProt Related Accession #	Q9UK80
NCBI Official Full Name	Ubiquitin carboxyl-terminal hydrolase 21
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.** Data show that SUMOylated BANP, E5R, and Nac1 (BEN) domain 3 (BEND3) stabilizes NoRC component TTF-1-interacting protein 5 (Tip5)via association with ubiquitin specific protease 21 (USP21) debiquitinase
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