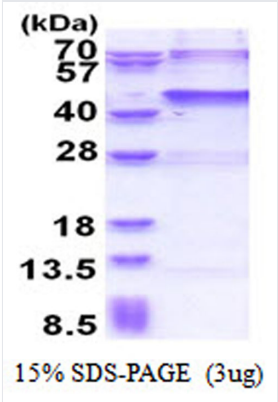
uSP46 Recombinant Protein

PRODUCT OVERVIEW

Product Name	uSP46, Recombinant Protein
Full Product Name	uSP46, 1-366aa, Human, His tag, E Coli
Product Gene Name	uSP46 recombinant protein
Product Synonym Names	ubiquitin carboxyl-terminal hydrolase 46 isoform 1; Deubiquitinating enzyme 46; FLJ12552; ubiquitin carboxyl-terminal hydrolase 46; ubiquitin thioesterase 46; ubiquitin-specific-processing protease 46
Sequence	MGSSHHHHHH SSGLVPRGSH MGSMTVRNIA SICNMGTNAS ALEKDIGPEQ FPINEHYFGL VNFGNTCYCN SVLQALYFCR PFRENVLAYK AQQKKKENLL TCLADLFHSI ATQKKKVGVI PPKKFISRLR KENDLFDNYM QQDAHEFLNY LLNTIADILQ EEKKQEKQNG KLKNGNMNEP AENNKPELTW VHEIFQGTLT NETRCLNCET VSSKDEDFLD LSVDVEQNTS ITHCLRDFSN TETLCSEQKY YCETCCSKQE AQKRMRVKKL PMILALHLKR FKYMEQLHRY TKLSYRVVFP LELRLFNTSS DAVNLDRMYD LVAVVVHCGS GPNRGHYITI VKSHGFWLLF DDDIVEKIDA QAIEEFYGLT SDISKNSESG YILFYQSRE
Host	E Coli
Form/Format	Liquid. In 20mM Tris-HCl Buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Purity/Purification	> 90% by SDS-PAGE
Concentration	0.25 mg/ml (determined by Bradford assay) (lot specific)
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.
Molecular Weight	44.8kDa (389aa) confirmed by MALDI-TOF
OMIM	GU455414 mRNA
3D Structure	ModBase 3D Structure for P62068
Antigen Species	Human
Tag Information	His-tag
Product Categories/Family for uSP46 recombinant protein	Epigenomics (Transcription & Translation)
Applications Tested/Suitable for uSP46 recombinant protein	SDS-PAGE
Related Product Information for uSP46 recombinant protein	Modification of cellular proteins by ubiquitin is an essential regulatory mechanism controlled by the coordinated action of multiple ubiquitin-conjugating and deubiquitinating enzymes. uSP46 belongs to a large family of cysteine proteases that function as deubiquitinating enzymes. Recombinant human uSP46 protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques.
Product References and Citations for uSP46 recombinant protein	Fukuo,Y., et al. (2011) J Affect Disord 133 (1-2), 150-157; Zhang,W., et al. (2011) PLoS ONE 6 (10), E26297;
Other Notes	Small volumes of uSP46 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.
Searchable Terms for uSP46 purchase	MBS205710 is a recombinant protein targeting uSP46. Also known as uSP46, 1-366aa, Human, His tag, E Coli. Host: E Coli.



SDS-Page of uSP46 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for uSP46. It may not necessarily be applicable to this product.

NCBI GI #	31377709
NCBI GeneID	64854
NCBI Accession #	NP_073743
UniProt Primary Accession #	P62068
UniProt Secondary Accession #	Q80V95; Q9H7U4; Q9H9T8; B7Z3Y7; B7Z675; B7Z7S3; G8ACC7
UniProt Related Accession #	P62068
GenBank Nucleotide #	NM_022832.3
NCBI Official Full Name	ubiquitin carboxyl-terminal hydrolase 46 isoform 1
NCBI Official Synonym Full Names	ubiquitin specific peptidase 46
NCBI Official Symbol	USP46
UniProt Protein Name	Ubiquitin carboxyl-terminal hydrolase 46
UniProt Synonym Protein Names	Deubiquitinating enzyme 46; Ubiquitin thioesterase 46; Ubiquitin-specific-processing protease 46
Protein Family	Ubiquitin carboxyl-terminal hydrolase
UniProt Gene Name	USP46
NCBI Protein Information	ubiquitin carboxyl-terminal hydrolase 46
NCBI Summary for uSP46	Modification of cellular proteins by ubiquitin is an essential regulatory mechanism controlled by the coordinated action of multiple ubiquitin-conjugating and deubiquitinating enzymes. USP46 belongs to a large family of cysteine proteases that function as deubiquitinating enzymes (Quesada et al., 2004 [PubMed 14715245]).[supplied by OMIM, Jun 2009]
UniProt Comments for uSP46	Deubiquitinating enzyme that plays a role in behavior, possibly by regulating GABA action. May act by mediating the deubiquitination of GAD1/GAD67 (). Has almost no deubiquitinating activity by itself and requires the interaction with WDR48 to have a high activity (PubMed:19075014, PubMed:26388029). Not involved in deubiquitination of monoubiquitinated FANCD2 (PubMed:19075014).
Research Articles on uSP46	**1.** Results suggest role for USP46/USP12 in Epstein-Barr virus induced growth transformation.
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