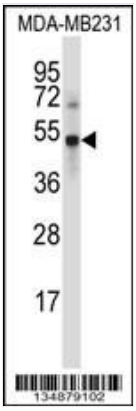
UBP46 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	UBP46, Polyclonal Antibody
Full Product Name	UBP46, CT (USP46, Ubiquitin carboxyl-terminal hydrolase 46, Deubiquitinating enzyme 46, Ubiquitin thioesterase 46, Ubiquitin-specific-processing protease 46) (AP)
Product Gene Name	anti-UBP46 antibody
Product Synonym Gene Name	USP46
Product Synonym Names	USP46; Ubiquitin carboxyl-terminal hydrolase 46; Deubiquitinating enzyme 46; Ubiquitin thioesterase 46; Ubiquitin-specific-processing protease 46
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 Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C. 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. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	41,112 Da
OMIM	612849
3D Structure	ModBase 3D Structure for P62068
Immunogen	UBP46 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 240-269 amino acids from the C-terminal region of human UBP46.
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-UBP46 antibody	Antibodies; Ubiquitin
Applications Tested/Suitable for anti-UBP46 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-UBP46 antibody	WB: 1:100-500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-UBP46 antibody	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]).
Product References and Citations for anti-UBP46 antibody	Kushima, I., et al. J. Hum. Genet. 55(3):133-136(2010). Cohn, M.A., et al. J. Biol. Chem. 284(8):5343-5351(2009). Zemunik, T., et al. Croat. Med. J. 50(1):23-33(2009). Quesada, V., et al. Biochem. Biophys. Res. Commun. 314(1):54-62(2004). Puente, X.S., et al. Nat. Rev. Genet. 4(7):544-558(2003).

Other Notes	Small volumes of anti-UBP46 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.
Searchable Terms for UBP46 purchase	MBS6360959 is an antibody targeting UBP46. Also known as UBP46, CT (USP46, Ubiquitin carboxyl-terminal hydrolase 46, Deubiquitinating enzyme 46, Ubiquitin thioesterase 46, Ubiquitin-specific-processing protease 46) (AP). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-UBP46 antibody
UBP46 Antibody (C-term) western blot analysis in MDA-MB231 cell line lysates (35ug/lane).This demonstrates the UBP46 antibody detected the UBP46 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for UBP46. It may not necessarily be applicable to this product.

NCBI GI #	197116355
NCBI GeneID	64854
NCBI Accession #	NP_001127695.1
NCBI Related Accession #	NP_073743.2
UniProt Primary Accession #	P62068
UniProt Secondary Accession #	Q80V95; Q9H7U4; Q9H9T8; B7Z3Y7; B7Z675; B7Z7S3; G8ACC7
UniProt Related Accession #	P62068
GenBank Nucleotide #	NM_001134223.1
NCBI Official Full Name	ubiquitin carboxyl-terminal hydrolase 46 isoform 2
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
UniProt Gene Name	USP46
UniProt Entry Name	UBP46_HUMAN
NCBI Protein Information	ubiquitin carboxyl-terminal hydrolase 46; deubiquitinating enzyme 46; ubiquitin thioesterase 46; ubiquitin thiolesterase 46; ubiquitin-specific-processing protease 46

UniProt Comments for UBP46	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. Not involved in deubiquitination of monoubiquitinated FANCD2. Belongs to the peptidase C19 family. USP12/USP46 subfamily. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Ubiquitin-specific protease; Protease; EC 3.4.19.12 Chromosomal Location of Human Ortholog: 4q12 Molecular Function: protein binding; ubiquitin-specific protease activity Biological Process: ubiquitin-dependent protein catabolic process; behavioral fear response; protein deubiquitination; righting reflex; adult feeding behavior; behavioral response to ethanol; regulation of synaptic transmission, GABAergic
Research Articles on UBP46	**1.** USP46-mediated stabilization of PHLPP and the subsequent inhibition of Akt.
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