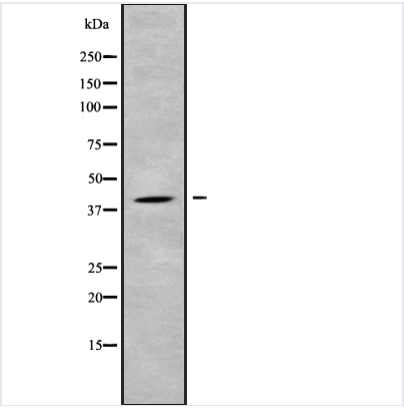
USP46 Antibody – Rabbit Polyclonal

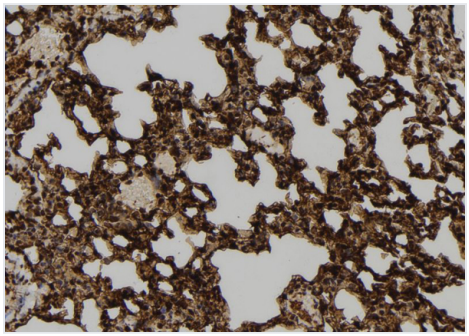
PRODUCT OVERVIEW

Product Name	USP46, Polyclonal Antibody
Full Product Name	USP46 Antibody
Product Gene Name	anti-USP46 antibody
Product Synonym Names	Deubiquitinating enzyme 46; FLJ11850; FLJ12552; FLJ14283; FLJ39393; Ubiquitin carboxyl terminal hydrolase 46; Ubiquitin carboxyl-terminal hydrolase 46; Ubiquitin specific peptidase 46; Ubiquitin specific processing protease 46; Ubiquitin specific protease 46; Ubiquitin thioesterase 46; Ubiquitin thiolesterase 46; Ubiquitin-specific-processing protease 46; UBP46_HUMAN; USP46
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	USP46 antibody detects endogenous levels of total USP46
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	USP46 peptide (MBS9629010) is used for blocking the activity of USP46 antibody (MBS9610306)
Molecular Weight	Observed: 42 kDa Predicted: 43 kDa
3D Structure	ModBase 3D Structure for P62068
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human USP46
Tissue Specificity	Broadly expressed.
Predicted Cross Reactivity	**Pig, Zebrafish, Bovine, Horse, Sheep, Dog, Chicken**
Similarity	Pig (100%), Zebrafish (80%), Bovine (100%), Horse (92%), Sheep (100%), Dog (100%), Chicken (100%)
Conjugation	Unconjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-USP46 antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-USP46 antibody	WB: 1:1000-3000 IHC: 1:200

Related Product Information for anti-USP46 antibody	Function: Deubiquitinating enzyme that plays a role in behavior, possibly by regulating GABA action. May act by mediating the deubiquitination of GAD1/GAD67 (By similarity). 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). Subunit Structure: Interacts with WDR48 (PubMed:19075014, PubMed:26388029). Interacts with WDR20 (PubMed:20147737). Similarity: Belongs to the peptidase C19 family. USP12/USP46 subfamily.
Other Notes	Small volumes of anti-USP46 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 USP46 purchase	MBS9610306 is an antibody targeting USP46. Also known as USP46 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-USP46 antibody
Western blot analysis USP46 using HT29 whole cell lysates



Immunohistochemistry (IHC) of anti-USP46 antibody
MBS9610306 at 1/100 staining Mouse lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for USP46. It may not necessarily be applicable to this product.

NCBI GI #	197116355
NCBI GeneID	64854
NCBI Accession #	NP_001127695.1
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
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.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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