USP4 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	USP4, Monoclonal Antibody
Full Product Name	USP4 (Ubiquitin-specific-processing Protease 4, Ubiquitin Carboxyl-terminal Hydrolase 4, Deubiquitinating Enzyme 4, Ubiquitin Thioesterase 4, Ubiquitous Nuclear Protein Homolog, UNP, UNPH) (HRP)
Product Gene Name	anti-USP4 antibody
Product Synonym Names	EC=3.4.19.12
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	5E12
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with horseradish peroxidase (HRP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human USP4.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	35,661 Da
OMIM	603486
3D Structure	ModBase 3D Structure for Q13107
Immunogen	Partial recombinant corresponding to aa676-773 from human USP4 (NP_003354) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	ETEGSGEDEPGNDPSETTQKKIKGQPCPKRLFTFSLVNSYGTADINSLAADGKLLKLNSRSTLAMDWDSETRRLYYDEQESEAYEKHVSMLQPQKKKK
Conjugate	HRP
Product Categories/Family for anti-USP4 antibody	Antibodies; Ubiquitin
Applications Tested/Suitable for anti-USP4 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-USP4 antibody	ELISA: 10ng/ml Applications are based on unconjugated antibody.

Related Product Information for anti-USP4 antibody	MBS6155708 is an antibody targeting USP4. Also known as USP4 (Ubiquitin-specific-processing Protease 4, Ubiquitin Carboxyl-terminal Hydrolase 4, Deubiquitinating Enzyme 4, Ubiquitin Thioesterase 4, Ubiquitous Nuclear Protein Homolog, UNP, UNPH) (HRP). Reactive in Human. Host: Mouse.
Other Notes	Small volumes of anti-USP4 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 USP4. It may not necessarily be applicable to this product.

NCBI GI #	40795665
NCBI GeneID	7375
NCBI Accession #	NP_003354
UniProt Primary Accession #	Q13107
UniProt Secondary Accession #	O43452; O43453; Q08AK8; A8K6Y0; C9IY91
UniProt Related Accession #	Q13107
GenBank Nucleotide #	NM_003363
NCBI Official Full Name	ubiquitin carboxyl-terminal hydrolase 4 isoform a
NCBI Official Synonym Full Names	ubiquitin specific peptidase 4 (proto-oncogene)
NCBI Official Symbol	USP4
NCBI Official Synonym Symbols	UNP; Unph
UniProt Protein Name	Ubiquitin carboxyl-terminal hydrolase 4
UniProt Synonym Protein Names	Deubiquitinating enzyme 4; Ubiquitin thioesterase 4; Ubiquitin-specific-processing protease 4; Ubiquitous nuclear protein homolog
UniProt Gene Name	USP4
UniProt Synonym Gene Names	UNP; UNPH
UniProt Entry Name	UBP4_HUMAN
NCBI Protein Information	ubiquitin carboxyl-terminal hydrolase 4; deubiquitinating enzyme 4; ubiquitin carboxyl-terminal esterase 4; ubiquitin specific protease 4 (proto-oncogene); ubiquitin thioesterase 4; ubiquitin thiolesterase 4; ubiquitin-specific processing protease 4; ubiq

UniProt Comments for USP4	USP4: Hydrolase that deubiquitinates target proteins such as the receptor ADORA2A, PDPK1 and TRIM21. Deubiquitination of ADORA2A increases the amount of functional receptor at the cell surface. Plays a role in the regulation of quality control in the ER. Interacts with RB1 (both dephosphorylated and hypophosphorylated forms). Interacts with ADORA2A (via cytoplasmic C-terminus); the interaction is direct. Interacts with RB1, RBL1 and RBL2. Overexpressed in small cell tumors and adenocarcinomas of the lung compared to wild-type lung. Expressed in the hippocampal neurons. Belongs to the peptidase C19 family. USP4 subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Ubiquitin-specific protease; Protease; EC 3.4.19.12; Oncoprotein; Ubiquitin conjugating system Chromosomal Location of Human Ortholog: 3p21.3 Cellular Component: lysosome; cytoplasm; plasma membrane; nucleus Molecular Function: identical protein binding; protein binding; cysteine-type endopeptidase activity; metal ion binding; ubiquitin-specific protease activity; adenosine receptor binding Biological Process: assembly of spliceosomal tri-snRNP; proteasomal ubiquitin-dependent protein catabolic process; protein deubiquitination; regulation of protein stability; negative regulation of protein ubiquitination
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