USP26 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	USP26, Polyclonal Antibody
Full Product Name	USP26, CT (Ubiquitin Carboxyl-terminal Hydrolase 26, Ubiquitin Thiolesterase 26, Ubiquitin-specific processing Protease 26, Deubiquitinating Enzyme 26)
Product Gene Name	anti-USP26 antibody
Product Synonym Names	Anti -USP26, CT (Ubiquitin Carboxyl-terminal Hydrolase 26, Ubiquitin Thiolesterase 26, Ubiquitin-specific processing Protease 26, Deubiquitinating Enzyme 26)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, 0.09% sodium azide.
Purity/Purification	Affinity Purified Purified by Protein G affinity chromatography.
Specificity	Recognizes human USP26.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	103,998 Da
Chromosome Location	Chromosome: X; NC_000023.10 (132159507..132162300, complement). Location: Xq26.2
3D Structure	ModBase 3D Structure for Q495F8
Immunogen	Synthetic peptide selected from the C-terminal region of human USP26 (KLH).
Product Categories/Family for anti-USP26 antibody	Antibodies; Abs to Ubiquitin
Applications Tested/Suitable for anti-USP26 antibody	ELISA (EL/EIA), Immunohistochemistry (IHC)
Application Notes for anti-USP26 antibody	Suitable for use in ELISA and Immunohistochemistry. Dilution: ELISA: 1:1,000 Immunohistochemistry: 1:50-1:100
Related Product Information for anti-USP26 antibody	Modification of target proteins by ubiquitin participates in a wide array of biological functions. Proteins destined for degradation or processing via the 26 S proteasome are coupled to multiple copies of ubiquitin. However, attachment of ubiquitin or ubiquitin-related molecules may also result in changes in subcellular distribution or modification of protein activity. An additional level of ubiquitin regulation, deubiquitination, is catalyzed by proteases called deubiquitinating enzymes, which fall into four distinct families. Ubiquitin C-terminal hydrolases, ubiquitin-specific processing proteases (USPs),1 OTU-domain ubiquitin-aldehyde-binding proteins, and Jab1/Pad1/MPN-domain-containing metallo-enzymes. Among these four families, USPs represent the most widespread and represented deubiquitinating enzymes across evolution. USPs tend to release ubiquitin from a conjugated protein. They display similar catalytic domains containing conserved Cys and His boxes but divergent N-terminal and occasionally C-terminal extensions, which are thought to function in substrate recognition, subcellular localization, and protein-protein interactions.

Other Notes	Small volumes of anti-USP26 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 USP26 purchase	MBS630800 is an antibody targeting USP26. Also known as USP26, CT (Ubiquitin Carboxyl-terminal Hydrolase 26, Ubiquitin Thiolesterase 26, Ubiquitin-specific processing Protease 26, Deubiquitinating Enzyme 26). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for USP26. It may not necessarily be applicable to this product.

NCBI GI #	13994268
NCBI GeneID	83844
NCBI Accession #	NP_114113.1
UniProt Primary Accession #	Q495F8
UniProt Related Accession #	Q495F8; Q9BXU7
GenBank Nucleotide #	NM_031907.1
NCBI Official Full Name	ubiquitin carboxyl-terminal hydrolase 26
NCBI Official Synonym Full Names	ubiquitin specific peptidase 26
NCBI Official Symbol	USP26
NCBI Official Synonym Symbols	MGC120066; MGC120067; MGC120068
UniProt Protein Name	Ubiquitin carboxyl-terminal hydrolase
UniProt Gene Name	USP26
UniProt Entry Name	Q495F8_HUMAN
NCBI Protein Information	ubiquitin carboxyl-terminal hydrolase 26; OTTHUMP00000024046; ubiquitin thioesterase 26; deubiquitinating enzyme 26; ubiquitin thiolesterase 26; ubiquitin specific protease 26; ubiquitin-specific processing protease 26; ubiquitin-specific-processing protease 26
NCBI Summary for USP26	This gene encodes a member of the ubiquitin-specific processing (UBP) family of proteases and is a deubiquitinating enzyme (DUB) with His and Cys domains. It is specifically expressed in testis tissue. Mutations in this gene have been associated with Sertoli cell-only syndrome and male infertility. [provided by RefSeq]
UniProt Comments for USP26	USP26: Involved in the ubiquitin-dependent proteolytic pathway in conjunction with the 26S proteasome. Deubiquitinates the androgen receptor and regulates the androgen receptor signaling pathway. Belongs to the peptidase C19 family. Protein type: Ubiquitin conjugating system; Ubiquitin-specific protease; Protease; EC 3.4.19.12 Chromosomal Location of Human Ortholog: Xq26.2 Cellular Component: nucleus Molecular Function: protein binding; cysteine-type endopeptidase activity; ubiquitin-specific protease activity Biological Process: proteasomal ubiquitin-dependent protein catabolic process; protein deubiquitination Disease: Spermatogenic Failure, X-linked, 1
Research Articles on USP26	**1.** USP26 assembles with androgen receptors (AR)and other cofactors in subnuclear foci and serves to counteract hormone-induced AR ubiquitination, thereby contributing to the regulation of AR transcriptional activity.

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