

USP20 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2146b

Specification

USP20 Antibody (C-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	Q9Y2K6
Other Accession	A7Z056 , NP_006667
Reactivity	Mouse
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	102003
Antigen Region	814-844

USP20 Antibody (C-term) - Additional Information

Gene ID 10868

Other Names

Ubiquitin carboxyl-terminal hydrolase 20,
Deubiquitinating enzyme 20, Ubiquitin
thioesterase 20,
Ubiquitin-specific-processing protease 20,
VHL-interacting deubiquitinating enzyme 2,
hVDU2, USP20, KIAA1003, LSFR3A, VDU2

Target/Specificity

This USP20 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 814-844 amino acids from the C-terminal region of human USP20.

Dilution

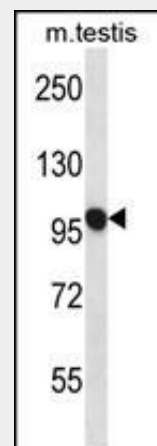
WB~~1:1000
IHC-P~~1:10~50

Format

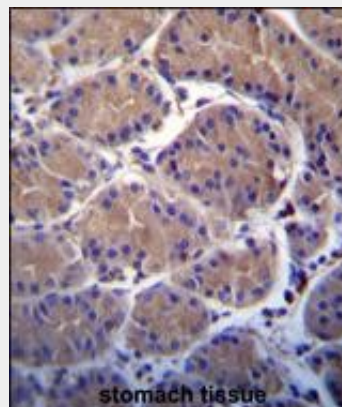
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw



USP20 Antibody (E828) (Cat. #AP2146b) western blot analysis in mouse testis tissue lysates (35ug/lane). This demonstrates the USP20 antibody detected the USP20 protein (arrow).



USP20 Antibody (C-term) (Cat. #AP2146b) immunohistochemistry analysis in formalin fixed and paraffin embedded human stomach tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of USP20 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

USP20 Antibody (C-term) - Background

cycles.

Precautions

USP20 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

USP20 Antibody (C-term) - Protein Information

Name USP20

Synonyms KIAA1003, LSFR3A, VDU2

Function

Deubiquitinating enzyme involved in beta-2 adrenergic receptor (ADRB2) recycling. Acts as a regulator of G-protein coupled receptor (GPCR) signaling by mediating the deubiquitination beta-2 adrenergic receptor (ADRB2). Plays a central role in ADRB2 recycling and resensitization after prolonged agonist stimulation by constitutively binding ADRB2, mediating deubiquitination of ADRB2 and inhibiting lysosomal trafficking of ADRB2. Upon dissociation, it is probably transferred to the translocated beta-arrestins, possibly leading to beta-arrestins deubiquitination and disengagement from ADRB2. This suggests the existence of a dynamic exchange between the ADRB2 and beta-arrestins. Deubiquitinates DIO2, thereby regulating thyroid hormone regulation. Deubiquitinates HIF1A, leading to stabilize HIF1A and enhance HIF1A-mediated activity. Mediates deubiquitination of both 'Lys-48'- and 'Lys-63'-linked polyubiquitin chains.

Cellular Location

Cytoplasm, perinuclear region. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Note=According to PubMed:12865408, it localizes in the endoplasmic reticulum; however the relevance of such result is unclear

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.

USP20 Antibody (C-term) - References

Nagase, T., et al., DNA Res. 6(1):63-70 (1999).
Gilley, J., et al., Hum. Mol. Genet. 8(7):1313-1320 (1999).

USP20 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)