

Rabbit USP33 Polyclonal Antibody | anti-USP33 antibody

USP33 Antibody

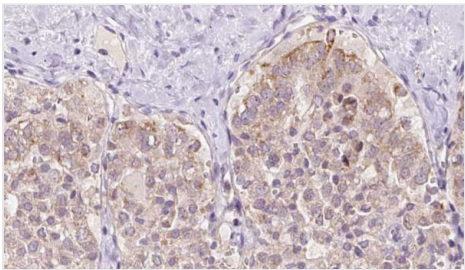
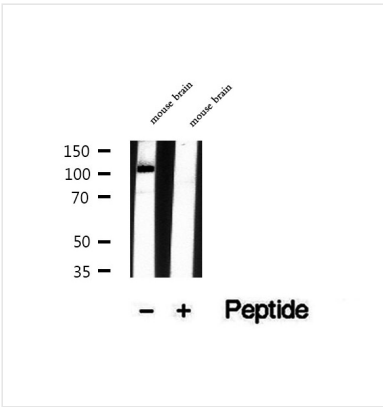
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323320	Rabbit	Human, Mouse, Rat	Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

USP33; Polyclonal Antibody; USP33 Antibody; Deubiquitinating enzyme 33; EC 3 1 2 15; hVDU1; KIAA1097; MGC16868; OTTHUMP00000011234; OTTHUMP00000011330; OTTHUMP00000011331; pVHL interacting deubiquitinating enzyme 1; Ubiquitin carboxyl terminal hydrolase 33; Ubiquitin carboxyl-terminal hydrolase 33; Ubiquitin specific peptidase 33; Ubiquitin specific processing protease 33; ubiquitin specific protease 33; Ubiquitin thioesterase 33; Ubiquitin thiolesterase 33; Ubiquitin-specific-processing protease 33; UBP33_HUMAN; USP 33; Usp33; VDU 1; VDU1; VHL interacting deubiquitinating enzyme 1; VHL-interacting deubiquitinating enzyme 1; anti-USP33 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	USP33 antibody detects endogenous levels of USP33.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	942
Applicable Applications for anti-USP33 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human USP33.
Subcellular Location	Cytoplasm > Perinuclear Region. According to PubMed:12865408, it localizes in the Endoplasmic Reticulum; however the relevance of such result is unclear.
Tissue Specificity	Widely expressed.
Predicted Cross Reactivity	Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA323320 at 1/100 staining Human thyroid cancer 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.

WB (Western Blot)
Western blot analysis of extracts of mouse brain tissue, using USP33 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-USP33 antibody	Function: Deubiquitinating enzyme involved in various processes such as centrosome duplication, cellular migration and beta-2 adrenergic receptor/ADRB2 recycling. Involved in regulation of centrosome duplication by mediating deubiquitination of CCP110 in S and G2/M phase, leading to stabilize CCP110 during the period which centrioles duplicate and elongate. Involved in cell migration via its interaction with intracellular domain of ROBO1, leading to regulate the Slit signaling. Plays a role in commissural axon guidance cross the ventral midline of the neural tube in a Slit-dependent manner, possibly by mediating the deubiquitination of ROBO1. Acts as a regulator of G-protein coupled receptor (GPCR) signaling by mediating the deubiquitination of beta-arrestins (ARRB1 and ARRB2) and 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, 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. Mediates deubiquitination of both 'Lys-48'-and 'Lys-63'-linked polyubiquitin chains. Subunit Structure: Interacts with VHL, leading to its ubiquitination and subsequent degradation. Interacts with ARRB1, ARRB2, ADRB2, DIO2 and ROBO1. Interacts with SELENBP1; in a selenium-dependent manner. Interacts with CCP110. Post-translational Modifications: Ubiquitinated via a VHL-dependent pathway for proteasomal degradation. Similarity: The UBP-type zinc finger binds 3 zinc ions. However, it does not bind ubiquitin, probably because the conserved Arg in position 86 is replaced by a Glu residue. Belongs to the peptidase C19 family. USP20/USP33 subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	42516567
NCBI GeneID	23032
NCBI Accession #	NP_055832.3
NCBI GenBank Nucleotide #	NM_015017.4
UniProt Accession #	Q8TEY7; Q8TEY6; Q96AV6; Q9H9F0; Q9UPQ5
Molecular Weight	Observed: 103 kDa; 107 kDa Predicted: 107 kDa
NCBI Official Full Name	ubiquitin carboxyl-terminal hydrolase 33 isoform 1
NCBI Official Synonym Full Names	ubiquitin specific peptidase 33
NCBI Official Symbol	USP33
NCBI Official Synonym Symbols	VDU1

NCBI Protein Information	ubiquitin carboxyl-terminal hydrolase 33
UniProt Protein Name	Ubiquitin carboxyl-terminal hydrolase 33
UniProt Gene Name	USP33
UniProt Synonym Gene Names	KIAA1097; VDU1; hVDU1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/usp33-antibody-immunohistochemistry-western-blot-elisa/323320>