

Datasheet for ABIN2788022
anti-USP20 antibody (Middle Region)[Go to Product page](#)

2 Images

Overview

Quantity:	100 µL
Target:	USP20
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Dog, Rabbit, Horse, Cow, Guinea Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This USP20 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human USP20
Sequence:	PAEAQPPSPR SSSPCRTPEP DNDAHLRSSH RPCSPVHHHE GHAKLSSSPP
Predicted Reactivity:	Cow: 92%, Dog: 92%, Guinea Pig: 100%, Horse: 92%, Human: 100%, Mouse: 85%, Rabbit: 100%, Rat: 92%
Characteristics:	This is a rabbit polyclonal antibody against USP20. It was validated on Western Blot.
Purification:	Affinity Purified

Target Details

Target:	USP20
Alternative Name:	USP20 (USP20 Products)

Target Details

Background:	<p>USP20 is a deubiquitinating enzyme involved in beta-2 adrenergic receptor (ADRB2) recycling. USP20 acts as a regulator of G-protein coupled receptor (GPCR) signaling by mediating the deubiquitination beta-2 adrenergic receptor (ADRB2). USP20 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. USP20 deubiquitinates HIF1A, leading to stabilize HIF1A and enhance HIF1A-mediated activity. USP20 mediates deubiquitination of both 'Lys-48'- and 'Lys-63'-linked polyubiquitin chains.</p> <p>Alias Symbols: KIAA1003, LSFR3A, VDU2</p> <p>Protein Interaction Partner: MDFI, MAGEA11, TRIM23, ALAS1, FATE1, BEND5, SPRY2, VAPB, CCDC36, BEND7, RAD17, NEURL4, USP33, USP20, CCP110, ADRB2, PJA1, USP28, USP21, USP15, PLA2G2A, UBC, VHL, HIF1A, VAPA, HERC2P2, PLEKHA7, SYTL4, GPT2, POLDIP3, RGPD5, ATAD3B, MAP7D1, LRRC59, ZNF770, S</p> <p>Protein Size: 913</p>
Molecular Weight:	102 kDa
Gene ID:	10868
NCBI Accession:	NM_006676 , NP_006667
UniProt:	Q9Y2K6
Pathways:	Regulation of G-Protein Coupled Receptor Protein Signaling

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 913 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 %

Handling

	sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images

