

Datasheet for ABIN2788008
anti-USP8 antibody (C-Term)[Go to Product page](#)

2 Images

Overview

Quantity:	100 µL
Target:	USP8
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat, Pig, Cow, Dog, Horse, Rabbit, Zebrafish (Danio rerio), Guinea Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This USP8 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the C terminal region of human USP8
Sequence:	FAGYSQQDSQ ELLLFLMDGL HEDLNKADNR KRYKEENNDH LDDFKAAEHA
Predicted Reactivity:	Cow: 93%, Dog: 93%, Guinea Pig: 93%, Horse: 93%, Human: 100%, Mouse: 93%, Pig: 100%, Rabbit: 93%, Rat: 93%, Zebrafish: 79%
Characteristics:	This is a rabbit polyclonal antibody against USP8. It was validated on Western Blot.
Purification:	Affinity Purified

Target Details

Target:	USP8
Alternative Name:	USP8 (USP8 Products)

Target Details

Background:	<p>USP8 is a hydrolase that can remove conjugated ubiquitin from proteins and therefore plays an important regulatory role at the level of protein turnover by preventing degradation. USP8 converts both 'Lys-48' and 'Lys-63'-linked ubiquitin chains. USP8 catalytic activity is enhanced in the M phase. USP8 is involved in cell proliferation. USP8 is required to enter into S phase in response to serum stimulation. USP8 may regulate T-cell anergy mediated by RNF128 via the formation of a complex containing RNF128 and OTUB1. USP8 probably regulates the stability of STAM2 and RASGRF1. USP8 regulates endosomal ubiquitin dynamics, cargo sorting, membrane traffic at early endosomes, and maintenance of ESCRT-0 stability. The level of protein ubiquitination on endosomes is essential for maintaining the morphology of the organelle. USP8 deubiquitinates EPS15 and controls tyrosine kinase stability. USP8 removes conjugated ubiquitin from EGFR thus regulating EGFR degradation and downstream MAPK signaling. USP8 is involved in acrosome biogenesis through interaction with the spermatid ESCRT-0 complex and microtubules.</p> <p>Alias Symbols: FLJ34456, HumORF8, KIAA0055, MGC129718, UBPY</p> <p>Protein Interaction Partner: VAMP8, LRIG1, TARDBP, UBC, PTEN, STAT6, TSEN2, POLD3, HTT, YWHAB, YWHAQ, YWHAE, EGFR, PTPN23, SRC, ERBB4, UBE2I, UBE2G1, FARSB, VPS4B, TRIM63, TRIM55, PJA1, USP28, TRIM54, USP21, USP15, GRAP2, CHMP4C, CHMP1B, CHMP2A, CHMP2B, RNF41, USP8, SPP1, CHMP1A, NBR</p> <p>Protein Size: 1118</p>
Molecular Weight:	127 kDa
Gene ID:	9101
NCBI Accession:	NM_005154 , NP_005145
UniProt:	P40818

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 1118 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific

Handling

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



Western Blotting

Image 1. WB Suggested Anti-USP8 Antibody Titration: 0.2-1 ug/ml

ELISA Titer: 1:312500

Positive Control: 293T cell lysate

Western Blotting

Image 2. WB Suggested Anti-USP8

Antibody Titration: 0.2-1 µg/mL ELISA Titer: 1:12500

Positive Control: 93T cell lysate

USP8 is supported by BioGPS gene expression data to be expressed in HEK293T