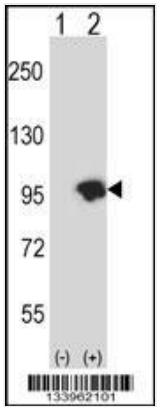
USP15 Antibody – Rabbit Polyclonal

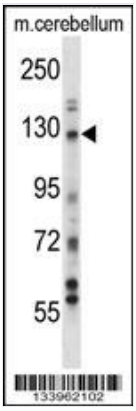
PRODUCT OVERVIEW

Product Name	USP15, Polyclonal Antibody
Full Product Name	USP15, NT (USP15, KIAA0529, Ubiquitin carboxyl-terminal hydrolase 15, Deubiquitinating enzyme 15, Ubiquitin thioesterase 15, Ubiquitin-specific-processing protease 15, Unph-2, Unph4) (FITC)
Product Gene Name	anti-USP15 antibody
Product Synonym Names	USP15; KIAA0529; Ubiquitin carboxyl-terminal hydrolase 15; Deubiquitinating enzyme 15; Ubiquitin thioesterase 15; Ubiquitin-specific-processing protease 15; Unph-2; Unph4
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	27,094 Da
OMIM	604731
3D Structure	ModBase 3D Structure for Q9Y4E8
Immunogen	USP15 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 253-282 amino acids from the N-terminal region of human USP15.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-USP15 antibody	Antibodies; Ubiquitin
Applications Tested/Suitable for anti-USP15 antibody	Western Blot (WB), FLISA
Application Notes for anti-USP15 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-USP15 antibody	Ubiquitin (MIM 191339), a highly conserved protein involved in the regulation of intracellular protein breakdown, cell cycle regulation, and stress response, is released from degraded proteins by disassembly of the polyubiquitin chains. The disassembly process is mediated by ubiquitin-specific proteases (USPs). Also see USP1 (MIM 603478).
Product References and Citations for anti-USP15 antibody	Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010): Vos, R.M., et al. J. Virol. 83(17):8885-8892(2009). Huang, X., et al. J. Mol. Biol. 391(4):691-702(2009). Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007): Beausoleil, S.A., et al. Nat. Biotechnol. 24(10):1285-1292(2006).

Other Notes	Small volumes of anti-USP15 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 USP15 purchase	MBS6361853 is an antibody targeting USP15. Also known as USP15, NT (USP15, KIAA0529, Ubiquitin carboxyl-terminal hydrolase 15, Deubiquitinating enzyme 15, Ubiquitin thioesterase 15, Ubiquitin-specific-processing protease 15, Unph-2, Unph4) (FITC). Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-USP15 antibody
Western blot analysis of USP15 (arrow) using rabbit polyclonal USP15 Antibody (N-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the USP15 gene.



Western Blot (WB) of anti-USP15 antibody
USP15 Antibody (N-term) western blot analysis in mouse cerebellum tissue lysates (35ug/lane).This demonstrates the USP15 antibody detected the USP15 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for USP15. It may not necessarily be applicable to this product.

NCBI GI #	14149627
NCBI GeneID	9958
NCBI Accession #	NP_006304.1
UniProt Primary Accession #	Q9Y4E8
UniProt Secondary Accession #	Q08AL5; Q9H8G9; Q9HCA6; Q9UNP0; Q9Y5B5
UniProt Related Accession #	Q9Y4E8
GenBank Nucleotide #	NM_006313.2
NCBI Official Full Name	ubiquitin carboxyl-terminal hydrolase 15 isoform 2
NCBI Official Synonym Full Names	ubiquitin specific peptidase 15
NCBI Official Symbol	USP15
NCBI Official Synonym Symbols	UNPH4; UNPH-2
UniProt Protein Name	Ubiquitin carboxyl-terminal hydrolase 15
UniProt Synonym Protein Names	Deubiquitinating enzyme 15; Ubiquitin thioesterase 15; Ubiquitin-specific-processing protease 15; Unph-2; Unph4
UniProt Gene Name	USP15
UniProt Synonym Gene Names	KIAA0529
UniProt Entry Name	UBP15_HUMAN
NCBI Protein Information	ubiquitin carboxyl-terminal hydrolase 15; ubiquitin thioesterase 15; deubiquitinating enzyme 15; ubiquitin thiolesterase 15; ubiquitin-specific-processing protease 15

NCBI Summary for USP15	This gene encodes a member of the ubiquitin specific protease (USP) family of deubiquitinating enzymes. USP enzymes play critical roles in ubiquitin-dependent processes through polyubiquitin chain disassembly and hydrolysis of ubiquitin-substrate bonds. The encoded protein associates with the COP9 signalosome, and also plays a role in transforming growth factor beta signalling through deubiquitination of receptor-activated SMAD transcription factors. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the long arm of chromosome 2. [provided by RefSeq, Nov 2011]
UniProt Comments for USP15	USP15: Protease that degrades 'Lys-48'-linked polyubiquitin chains. Protects target proteins against proteasomal degradation. Protects APC and human papillomavirus type 16 protein E6 against degradation via the ubiquitin proteasome pathway. Belongs to the peptidase C19 family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Protease; Ubiquitin-specific protease; EC 3.4.19.12; Ubiquitin conjugating system Chromosomal Location of Human Ortholog: 12q14 Cellular Component: cytoplasm; nucleus Molecular Function: identical protein binding; protein binding; cysteine-type endopeptidase activity; ubiquitin-specific protease activity; SMAD binding; transforming growth factor beta receptor binding Biological Process: BMP signaling pathway; proteasomal ubiquitin-dependent protein catabolic process; protein deubiquitination; transforming growth factor beta receptor signaling pathway; negative regulation of transforming growth factor beta receptor signaling pathway
Research Articles on USP15	**1.** Data suggest that ubiquitin specific peptidase 15 (USP15) may play a role in the pathogenesis of psoriasis through regulating the type I TGFbeta receptor (TbetaR-I)/Smad7 pathway.
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