

**USP14 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP19898b**

**Specification**

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**USP14 Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P54578</a>
Other Accession	<a href="#">Q9JMA1</a> , <a href="#">Q0IIF7</a> , <a href="#">NP_005142.1</a>
Reactivity	Human
Predicted	Bovine, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	355-383

**USP14 Antibody (C-term) - Additional Information**

**Gene ID** 9097

**Other Names**

Ubiquitin carboxyl-terminal hydrolase 14, Deubiquitinating enzyme 14, Ubiquitin thioesterase 14, Ubiquitin-specific-processing protease 14, USP14, TGT

**Target/Specificity**

This USP14 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 355-383 amino acids from the C-terminal region of human USP14.

**Dilution**

WB~~1:1000

**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 cycles.

**Precautions**

USP14 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**USP14 Antibody (C-term) - Protein Information**

**Name** USP14

**Synonyms** TGT

**Function** Proteasome-associated deubiquitinase which releases ubiquitin from the proteasome targeted ubiquitinated proteins (PubMed:[35145029](#)). Ensures the regeneration of ubiquitin at the proteasome (PubMed:[18162577](#), PubMed:[28396413](#)). Is a reversibly associated subunit of the proteasome and a large fraction of proteasome-free protein exists within the cell (PubMed:[18162577](#)). Required for the degradation of the chemokine receptor CXCR4 which is critical for CXCL12-induced cell chemotaxis (PubMed:[19106094](#)). Serves also as a physiological inhibitor of endoplasmic reticulum-associated degradation (ERAD) under the non-stressed condition by inhibiting the degradation of unfolded endoplasmic reticulum proteins via interaction with ERN1 (PubMed:[19135427](#)). Indispensable for synaptic development and function at neuromuscular junctions (NMJs) (By similarity). Plays a role in the innate immune defense against viruses by stabilizing the viral DNA sensor CGAS and thus inhibiting its autophagic degradation (PubMed:[27666593](#)). Inhibits OPTN-mediated selective autophagic degradation of KDM4D and thereby negatively regulates H3K9me2 and H3K9me3 (PubMed:[35145029](#)).

#### Cellular Location

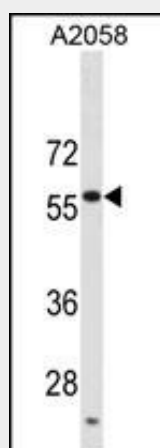
Cytoplasm. Cell membrane; Peripheral membrane protein

#### USP14 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](#)

#### USP14 Antibody (C-term) - Images



USP14 Antibody (C-term) (Cat. #AP19898b) western blot analysis in A2058 cell line lysates (35ug/lane). This demonstrates the USP14 antibody detected the USP14 protein (arrow).

#### USP14 Antibody (C-term) - Background

This gene encodes a member of the ubiquitin-specific processing (UBP) family of proteases that is a deubiquitinating enzyme (DUB) with His and Cys domains. This protein is located in

the cytoplasm and cleaves the ubiquitin moiety from ubiquitin-fused precursors and ubiquitinated proteins. Mice with a mutation that results in reduced expression of the ortholog of this protein are retarded for growth, develop severe tremors by 2 to 3 weeks of age followed by hindlimb paralysis and death by 6 to 10 weeks of age. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.

#### **USP14 Antibody (C-term) - References**

Davila, S., et al. Genes Immun. 11(3):232-238(2010)  
Chen, P.C., et al. J. Neurosci. 29(35):10909-10919(2009)  
Mines, M.A., et al. J. Biol. Chem. 284(9):5742-5752(2009)  
Nagai, A., et al. Biochem. Biophys. Res. Commun. 379(4):995-1000(2009)  
Koulich, E., et al. Mol. Biol. Cell 19(3):1072-1082(2008)

#### **USP14 Antibody (C-term) - Citations**

- [A new gold\(I\) complex-Au\(PPh\)<sub>3</sub>PT is a deubiquitinase inhibitor and inhibits tumor growth.](#)
- [Ubiquitin-specific protease-14 reduces cellular aggregates and protects against mutant huntingtin-induced cell degeneration: involvement of the proteasome and ER stress-activated kinase IRE1 \$\alpha\$ .](#)