

KD-Validated Anti-Ubiquitin Specific Peptidase 14 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1710**Specification****KD-Validated Anti-Ubiquitin Specific Peptidase 14 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	P54578
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 56 kDa , observed , 56 kDa KDa
Gene Name	USP14
Aliases	USP14; Ubiquitin Specific Peptidase 14; TGT; Ubp6; Ubiquitin Specific Peptidase 14 (TRNA-Guanine Transglycosylase); Ubiquitin Specific Protease 14 (TRNA-Guanine Transglycosylase); Ubiquitin Carboxyl-Terminal Hydrolase 14; Deubiquitinating Enzyme 14; Ubiquitin Thioesterase 14; TRNA-Guanine Transglycosylase, 60-KD Subunit; Ubiquitin-Specific Processing Protease 14; Ubiquitin-Specific-Processing Protease 14; Ubiquitin Thiolesterase 14; EC 3.4.19.12; EC 3.1.2.15
Immunogen	A synthesized peptide derived from human USP14

KD-Validated Anti-Ubiquitin Specific Peptidase 14 Rabbit Monoclonal Antibody - Additional Information

Gene ID	9097
Other Names	
Ubiquitin carboxyl-terminal hydrolase 14, 3.4.19.12, Deubiquitinating enzyme 14, Ubiquitin thioesterase 14, Ubiquitin-specific-processing protease 14, USP14, TGT	

KD-Validated Anti-Ubiquitin Specific Peptidase 14 Rabbit Monoclonal Antibody - Protein Information**Name** USP14**Synonyms** TGT**Function**

Proteasome-associated deubiquitinase which releases ubiquitin from the proteasome targeted ubiquitinated proteins (PubMed:

target="_blank">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). Also serves 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

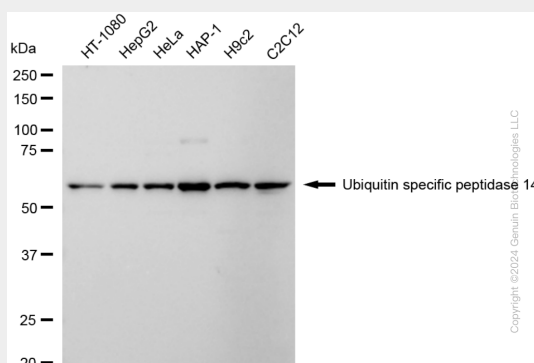
Cytoplasm. Cell membrane; Peripheral membrane protein

KD-Validated Anti-Ubiquitin Specific Peptidase 14 Rabbit Monoclonal Antibody - 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](#)

KD-Validated Anti-Ubiquitin Specific Peptidase 14 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-ubiquitin specific peptidase 14 antibody (Cat#AGI1710). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-ubiquitin specific peptidase 14 antibody (Cat#AGI1710, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

