

**Anti-USP14 Rabbit Monoclonal Antibody**  
**Catalog # ABO13803****Specification**

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**Anti-USP14 Rabbit Monoclonal Antibody - Product Information**

Application	WB, IF, ICC, FC
Primary Accession	<a href="#">P54578</a>
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-USP14 Rabbit Monoclonal Antibody . Tested in WB, ICC/IF, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

**Anti-USP14 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

**Calculated MW**

56069 MW KDa

**Application Details**

WB 1:500-1:2000<br>ICC/IF 1:50-1:200<br>FC 1:60

**Subcellular Localization**

Cytoplasm. Cell membrane ; Peripheral membrane protein.

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human USP14

**Purification**

Affinity-chromatography

**Storage**

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

**Anti-USP14 Rabbit Monoclonal Antibody - Protein Information**

**Name** USP14**Synonyms** TGT**Function**

Proteasome-associated deubiquitinase which releases ubiquitin from the proteasome targeted ubiquitinated proteins (PubMed:<a href="http://www.uniprot.org/citations/35145029" target="\_blank">35145029</a>). Ensures the regeneration of ubiquitin at the proteasome (PubMed:<a href="http://www.uniprot.org/citations/18162577" target="\_blank">18162577</a>, PubMed:<a href="http://www.uniprot.org/citations/28396413" target="\_blank">28396413</a>). Is a reversibly associated subunit of the proteasome and a large fraction of proteasome-free protein exists within the cell (PubMed:<a href="http://www.uniprot.org/citations/18162577" target="\_blank">18162577</a>). Required for the degradation of the chemokine receptor CXCR4 which is critical for CXCL12-induced cell chemotaxis (PubMed:<a href="http://www.uniprot.org/citations/19106094" target="\_blank">19106094</a>). 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:<a href="http://www.uniprot.org/citations/19135427" target="\_blank">19135427</a>). 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:<a href="http://www.uniprot.org/citations/27666593" target="\_blank">27666593</a>). Inhibits OPTN-mediated selective autophagic degradation of KDM4D and thereby negatively regulates H3K9me2 and H3K9me3 (PubMed:<a href="http://www.uniprot.org/citations/35145029" target="\_blank">35145029</a>).

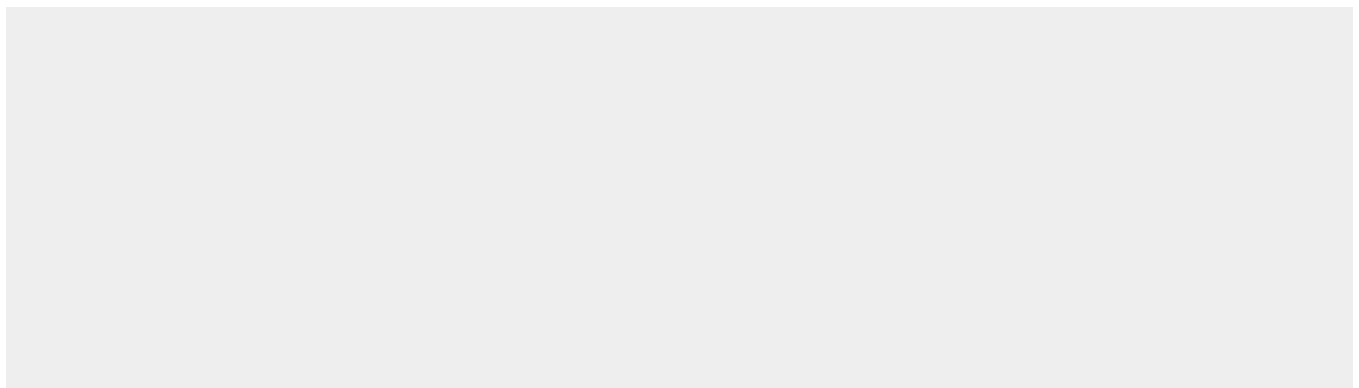
**Cellular Location**

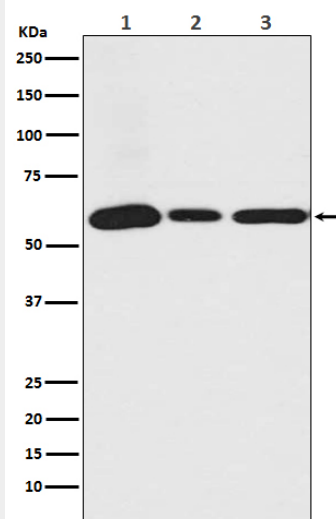
Cytoplasm. Cell membrane; Peripheral membrane protein

**Anti-USP14 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](#)

**Anti-USP14 Rabbit Monoclonal Antibody - Images**



Western blot analysis of USP14 expression in (1) HeLa cell lysate; (2) RAW 264.7 cell lysate; (3) C6 cell lysate.