

## Anti-USP14 Antibody (2P900)

### Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	2P900
Purification:	Affinity-chromatography

### Applications

Verified Activity:	<p>1. Western Blot</p> <ul style="list-style-type: none"><li>-Positive WB detected in: PC3 whole cell lysate, Ntera-2 whole cell lysate, MCF-7 whole cell lysate, Hela whole cell lysate, HepG2 whole cell lysate, A549 whole cell lysate, U251 whole cell lysate</li><li>-All lanes: USP14 antibody at 1:2000</li><li>-Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution</li><li>-Predicted band size: 57, 53, 55 kDa</li><li>-Observed band size: 55-72 kDa</li></ul> <p>2. Immunofluorescence staining of PC-3 cell with TMAH-01236 at 1:50, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 517-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).</p>
Application:	ELISA, WB, IF
Recommended	WB:1:500-1:2000; IF:1:50-1:200.

### Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

### Antigen Details

Immunogen:	A synthetic peptide: Human USP14
Antigen Species:	Human
Gene ID:	9097
Uniprot ID:	P54578
Synonyms:	Ubiquitin-specific-processing protease 14;Ubiquitin thioesterase 14;EC 3.4.19.12;TGT; Deubiquitinating enzyme 14;Ubiquitin carboxyl-terminal hydrolase 14;USP 14
Biology Area:	Epigenetics and Nuclear Signaling, Cell biology

### Research Background

Proteasome-associated deubiquitinase which releases ubiquitin from the proteasome targeted ubiquitinated proteins. Ensures the regeneration of ubiquitin at the proteasome. Is a reversibly associated subunit of the proteasome and a large fraction of proteasome-free protein exists within the cell. Required for the degradation of

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the chemokine receptor CXCR4 which is critical for CXCL12-induced cell chemotaxis. 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. Indispensable for synaptic development and function at neuromuscular junctions (NMJs). Plays a role in the innate immune defense against viruses by stabilizing the viral DNA sensor CGAS and thus inhibiting its autophagic degradation.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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