


Product datasheet

Anti-USP14/TGT antibody ab71165

[3 References](#) [3 Images](#)

Overview

Product name	Anti-USP14/TGT antibody
Description	Rabbit polyclonal to USP14/TGT
Host species	Rabbit
Tested applications	Suitable for: WB, IP, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Chimpanzee, Rhesus monkey 
Immunogen	Synthetic peptide corresponding to Human USP14/TGT aa 350-400 (internal sequence). Database link: NP_005142.1
Positive control	Whole cell lysates from Hela cells and 293T cells.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7 Preservative: 0.09% Sodium azide Constituents: 1.815% Tris, 1.764% Sodium citrate, 0.021% PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab71165 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/2000 - 1/10000. Detects a band of approximately 56 kDa (predicted molecular weight: 56 kDa).
IP		Use at 2-5 µg/mg of lysate.
IHC-P		1/500 - 1/2000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

Function

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 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).

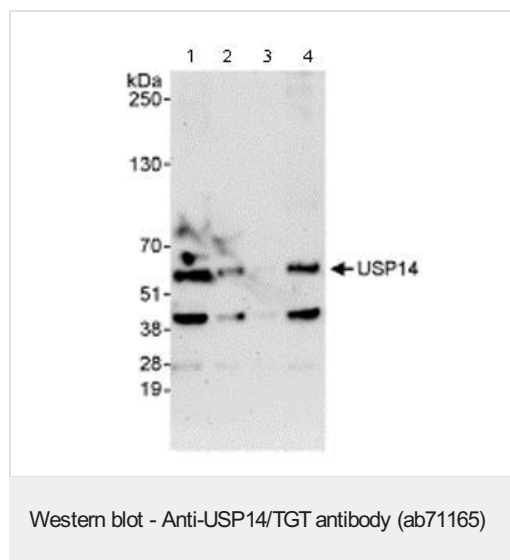
Sequence similarities

Belongs to the peptidase C19 family. USP14/UBP6 subfamily.
Contains 1 ubiquitin-like domain.

Cellular localization

Cytoplasm. Cell membrane.

Images



All lanes : Anti-USP14/TGT antibody (ab71165) at 0.1 µg/ml

Lane 1 : Whole cell lysate from HeLa cells at 50 µg

Lane 2 : Whole cell lysate from HeLa cells at 15 µg

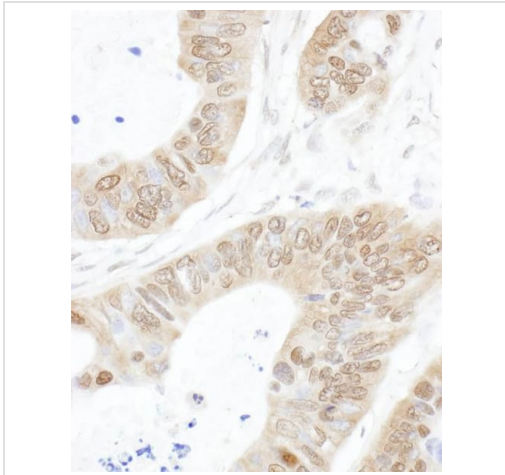
Lane 3 : Whole cell lysate from HeLa cells at 5 µg

Lane 4 : Whole cell lysate from 293T cells at 50 µg

Predicted band size: 56 kDa

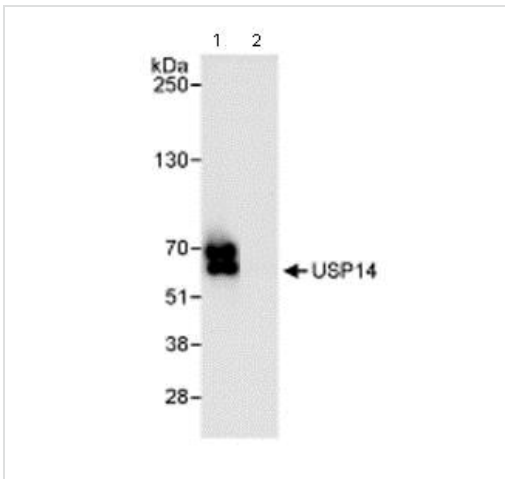
Observed band size: 56 kDa

Additional bands at: 28 kDa, 40 kDa. We are unsure as to the identity of these extra bands.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human ovarian carcinoma tissue labelling USP14/TGT with ab71165 at 1/1000 (1µg/ml). Detection: DAB.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-USP14/TGT antibody (ab71165)



Detection of Human USP14/TGT by Immunoprecipitation in Whole cell lysate from HeLa cells (1 mg for IP, 20% of IP loaded) using ab71165 at 3 µg/mg lysate for IP (Lane 1) and at 1 µg/ml for subsequent WB detection. Lane 2 represents control IgG IP.

Immunoprecipitation - Anti-USP14/TGT antibody (ab71165)

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