

# USP14 Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Recombinant fragment corresponding to a region within amino acids 67 and 325 of Human USP14
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	0.1M tris glycine, pH 7, with 20% glycerol
Contains	0.01% thimerosal
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2547775

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:3,000	-
Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000	-
Immunohistochemistry (Frozen) (IHC (F))	1:100-1:1,000	-
Immunocytochemistry (ICC/IF)	1:100-1:1,000	-

## Product Specific Information

Recommended positive controls: HeLa, A431, mouse brain, rat brain.

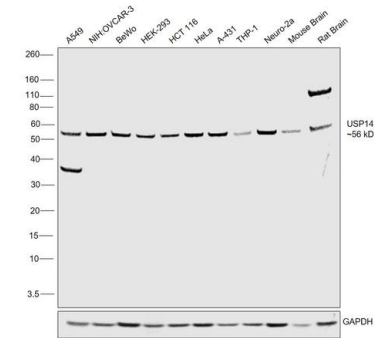
Predicted reactivity: Mouse (97%), Rat (97%), Xenopus laevis (88%), Rabbit (97%), Rhesus Monkey (100%), Chimpanzee (100%), Bovine (97%).

Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Product Images For USP14 Polyclonal Antibody

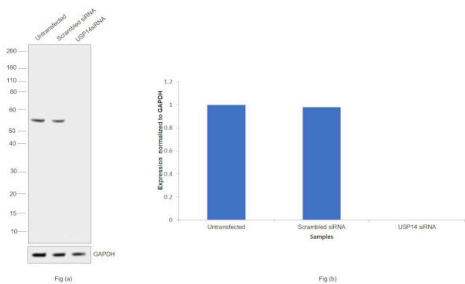
USP14 Antibody (PA5-30301) in WB

Western blot was performed using Anti-USP14 Polyclonal Antibody (Product # PA5-30301) and a 56 kDa band along with uncharacterized bands seen approximately at 35 kDa and 110 kDa corresponding to USP14 was observed across cell lines and tissues tested. Whole cell extracts (30 µg lysate) of A549 (Lane 1), NIH:OVCAR-3 (Lane 2), BeWo (Lane 3), HEK-293 (Lane 4), HCT 116 (Lane 5), HeLa (Lane 6), A-431 (Lane 7), THP-1 (Lane 8) and Neuro-2a (Lane 9), tissue extracts of Mouse Brain (Lane 10) and Rat Brain (Lane 11) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX), 12 well. Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:20,000 dilution) using the iBright™ FL1500 Imaging System (Product # A44115). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



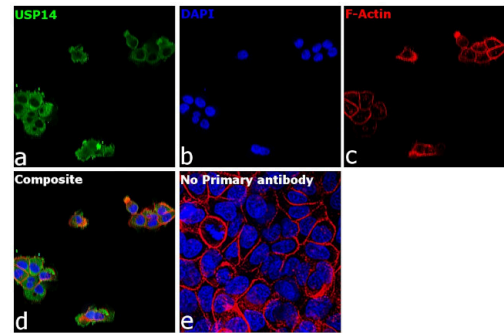
USP14 Antibody (PA5-30301)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HEK-293 cells were transfected with USP14 siRNA and decrease in signal intensity was observed in Western Blot application using Anti-USP14 Polyclonal Antibody (Product # PA5-30301). {KD}



USP14 Antibody (PA5-30301) in ICC/IF

Immunofluorescence analysis of Anti-USP14 Polyclonal Antibody (Product # PA5-30301) was performed using 70% confluent log phase A-431 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with USP14 Polyclonal Antibody (Product # PA5-30301) at 1:100 dilution in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Donkey anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32790, 1:2000 dilution), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b: Blue) were stained with Hoechst 33342 (Product # H1399). F-actin (Panel c: Red) was stained with Alexa Fluor™ Plus 647 Phalloidin (Product # A30107, 1: 2000 dilution). Panel d represents the merged image showing cytoplasmic localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 40X magnification in Cell Insight CX7 LZR High-Content Screening (HCS) Platform (Product # CX7A1110LZR) and externally deconvoluted (D.Sage et al./Methods 115 (2017) 28–41).



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