

Anti-USP14 Antibody (2A615)

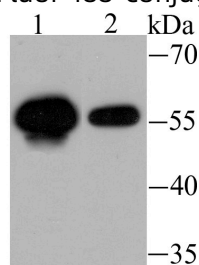
Product Details

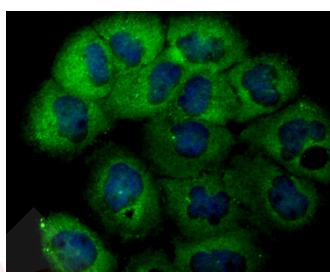
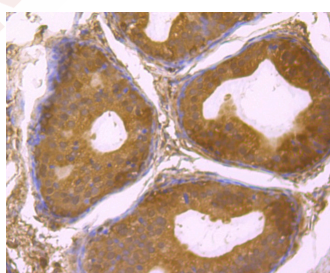
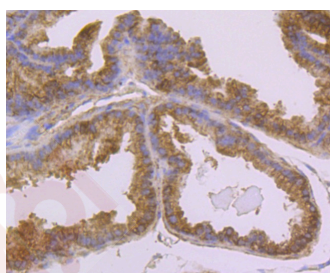
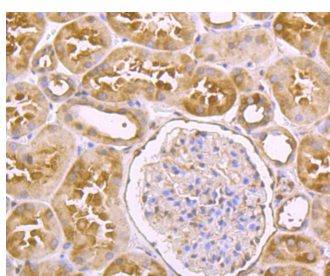
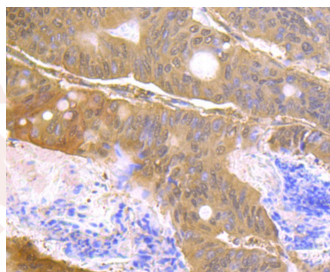
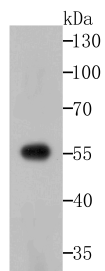
Ig Type:	IgG
Reactivity:	Human,zebrafish
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 56 kDa.
Clone:	2A615
Purification:	ProA affinity purified

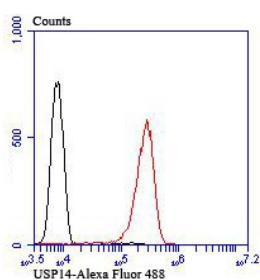
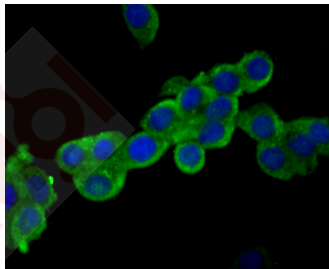
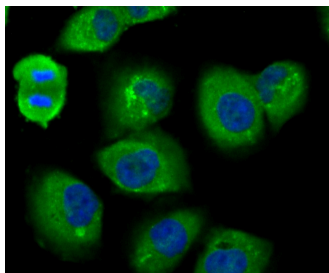
Applications

1. Western blot analysis of USP14 on K562 (1) and Hela (2) cell lysate using anti-USP14 antibody at 1/1,000 dilution.
2. Western blot analysis of USP14 on Zebrafish tissue lysates using anti-USP14 antibody at 1/200 dilution.
3. Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-USP14 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-USP14 antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded mouse prostate tissue using anti-USP14 antibody. Counter stained with hematoxylin.
6. Immunohistochemical analysis of paraffin-embedded rat epididymis tissue using anti-USP14 antibody. Counter stained with hematoxylin.
7. ICC staining USP14 in A431 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
8. ICC staining USP14 in HUVEC cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
9. ICC staining USP14 in LOVO cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
10. Flow cytometric analysis of Jurkat cells with USP14 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

Verified Activity:







Application: FCM, ICC, IF, IHC, WB

Recommended WB: 1:500-2000; IHC: 1:50-200; ICC: 1:50-200; FCM: 1:50-100

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: Recombinant Protein

Uniprot ID: P54578

Synonyms: USP 14; TGT; Ubiquitin-specific-processing protease 14; Ubiquitin carboxyl-terminal hydrolase 14; EC 3.4.19.12; Deubiquitinating enzyme 14; Ubiquitin thioesterase 14

Research Background

The ubiquitin (Ub) pathway involves three sequential enzymatic steps that facilitate the conjugation of Ub and Ub-like molecules to specific protein substrates. Through the use of a wide range of enzymes that can add or remove ubiquitin, the Ub pathway controls many intracellular processes such as signal transduction, transcriptional activation and cell cycle progression. USP14 (ubiquitin specific peptidase 14), also known as TGT (tRNA-guanine transglycosylase), is a cytoplasmic protein that belongs to the ubiquitin-specific processing family of deubiquitinating enzymes. Existing as a homodimer within the cell, USP14 functions to cleave ubiquitin residues from both ubiquitinated proteins and ubiquitin-fused precursors, thereby saving these proteins from proteasomal degradation. In mice, defects or mutations in the gene encoding USP14 cause retarded growth or fetal death, indicating that USP14 plays a key role in early developmental processes. Multiple isoforms of USP14 are expressed due to alternative splicing events.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481