

Anti-USP24 Antibody [JE56-50]

HA720022



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse
Applications:	WB, IF-Cell
Molecular Wt:	Predicted band size: 294 kDa
Clone number:	JE56-50

Description: Ubiquitin-specific protease that regulates cell survival in various contexts through modulating the protein stability of some of its substrates including DDB2, MCL1 or TP53. Plays a positive role on ferritinophagy where ferritin is degraded in lysosomes and releases free iron. Modification of cellular proteins by ubiquitin is an essential regulatory mechanism controlled by the coordinated action of multiple ubiquitin-conjugating and deubiquitinating enzymes. USP24 belongs to a large family of cysteine proteases that function as deubiquitinating enzymes .

Immunogen: Synthetic peptide within C-terminal Human USP24.

Positive control: A549-parental cell lysate, A549-商品名 KD cell lysate, HepG2 cell lysate, HeLa cell lysate, 293T cell lysate, Jurkat cell lysate, NIH/3T3 cell lysate, Mouse lung tissue lysate, HepG2.

Subcellular location: Cytosol, nucleoplasm, nucleus.

Database links: SwissProt: Q9UPU5 Human | B1AY13 Mouse

Recommended Dilutions:

WB	1:2,000
IF-Cell	1:50-1:100

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

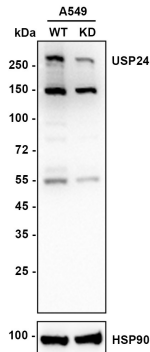
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Images

Fig1: Western blot analysis of USP24 on different lysates with Rabbit anti-USP24 antibody (HA720022) at 1/1,000 dilution.

Lane 1: A549-parental cell lysate
Lane 2: A549-USP24 KD cell lysate



Lysates/proteins at 20 µg/Lane.

Predicted band size: 294 kDa
Observed band size: 294 kDa

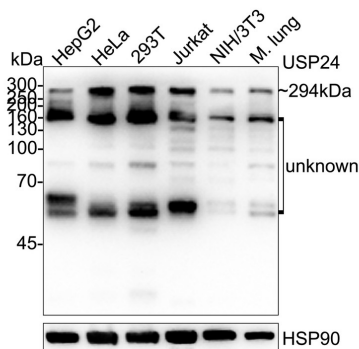
Exposure time: 30 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA720022) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Western blot analysis of USP24 on different lysates with Rabbit anti-USP24 antibody (HA720022) at 1/2,000 dilution.

Lane 1: HepG2 cell lysate
Lane 2: HeLa cell lysate
Lane 3: 293T cell lysate
Lane 4: Jurkat cell lysate
Lane 5: NIH/3T3 cell lysate
Lane 6: Mouse lung tissue lysate



Lysates/proteins at 20 µg/Lane.

Predicted band size: 294 kDa
Observed band size: 294 kDa

Exposure time: 30 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA720022) at 1/2,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

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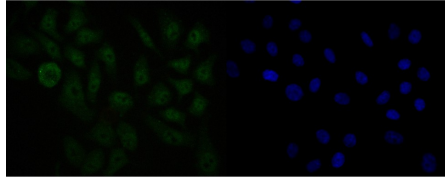


Fig3: ICC staining of USP24 in HepG2 cells (green). Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature and blocked with 1% Blocker BSA for 15 minutes at room temperature. Cells were probed with the primary antibody (HA720022, 1/50) for 1 hour at room temperature, washed with PBS. Alexa Fluor®488 Goat anti-Rabbit IgG was used as the secondary antibody at 1/1,000 dilution. The nuclear counter stain is DAPI (blue).

Note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

Background References

1. Thayer JA. et. al. The PARK10 gene USP24 is a negative regulator of autophagy and ULK1 protein stability. *Autophagy*. 2020 Jan
2. Wang YC. et. al. USP24 induces IL-6 in tumor-associated microenvironment by stabilizing p300 and β -TrCP and promotes cancer malignancy. *Nat Commun*. 2018 Sep

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