

KD-Validated Anti-Ubiquitin Specific Peptidase 39 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1705**Specification****KD-Validated Anti-Ubiquitin Specific Peptidase 39 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	Q53GS9
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 65 kDa , observed , 65 kDa KDa
Gene Name	USP39
Aliases	USP39; Ubiquitin Specific Peptidase 39; SNRNP65; CGI-21; SAD1; Small Nuclear Ribonucleoprotein 65kDa (U4/U6.U5); U4/U6.U5 Tri-SnRNP-Associated 65 KDa Protein; Ubiquitin Carboxyl-Terminal Hydrolase 39; Ubiquitin Specific Protease 39; SAD1 Homolog; SnRNP Assembly Defective 1 Homolog (S. Cerevisiae); Inactive Ubiquitin-Specific Peptidase 39; U4/U6.U5 Tri-SnRNP-Associated Protein; SnRNP Assembly Defective 1 Homolog; EC 3.4.19.12 ;HSPC332; 65K
Immunogen	A synthesized peptide derived from human USP39

KD-Validated Anti-Ubiquitin Specific Peptidase 39 Rabbit Monoclonal Antibody - Additional Information

Gene ID	10713
Other Names	
Ubiquitin carboxyl-terminal hydrolase 39, 3.4.19.12, SAD1 homolog, U4/U6.U5 tri-snRNP-associated 65 kDa protein, USP39 (HGNC:20071)	

KD-Validated Anti-Ubiquitin Specific Peptidase 39 Rabbit Monoclonal Antibody - Protein Information**Name** USP39 ([HGNC:20071](#))**Function**

Deubiquitinating enzyme that plays a role in many cellular processes including cellular antiviral response, epithelial morphogenesis, DNA repair or B-cell development (PubMed:33127822, PubMed:33127822)

[34614178](http://www.uniprot.org/citations/34614178)). Plays a role in pre-mRNA splicing as a component of the U4/U6-U5 tri-snRNP, one of the building blocks of the precatalytic spliceosome (PubMed: [11350945](http://www.uniprot.org/citations/11350945), PubMed: [26912367](http://www.uniprot.org/citations/26912367)). Specifically regulates immunoglobulin gene rearrangement in a spliceosome-dependent manner, which involves modulating chromatin interactions at the Igh locus and therefore plays an essential role in B-cell development (By similarity). Regulates AURKB mRNA levels, and thereby plays a role in cytokinesis and in the spindle checkpoint (PubMed: [18728397](http://www.uniprot.org/citations/18728397)). Regulates apoptosis and G2/M cell cycle checkpoint in response to DNA damage by deubiquitinating and stabilizing CHK2 (PubMed: [30771428](http://www.uniprot.org/citations/30771428)). Also plays an important role in DNA repair by controlling the recruitment of XRCC4/LIG4 to DNA double-strand breaks for non-homologous end-joining repair (PubMed: [34614178](http://www.uniprot.org/citations/34614178)). Participates in antiviral activity by affecting the type I IFN signaling by stabilizing STAT1 and decreasing its 'Lys-6'-linked ubiquitination (PubMed: [33127822](http://www.uniprot.org/citations/33127822)). Contributes to non-canonical Wnt signaling during epidermal differentiation (By similarity). Acts as a negative regulator NF-kappa-B activation through deubiquitination of 'Lys-48'-linked ubiquitination of NFKBIA (PubMed: [36651806](http://www.uniprot.org/citations/36651806)).

Cellular Location

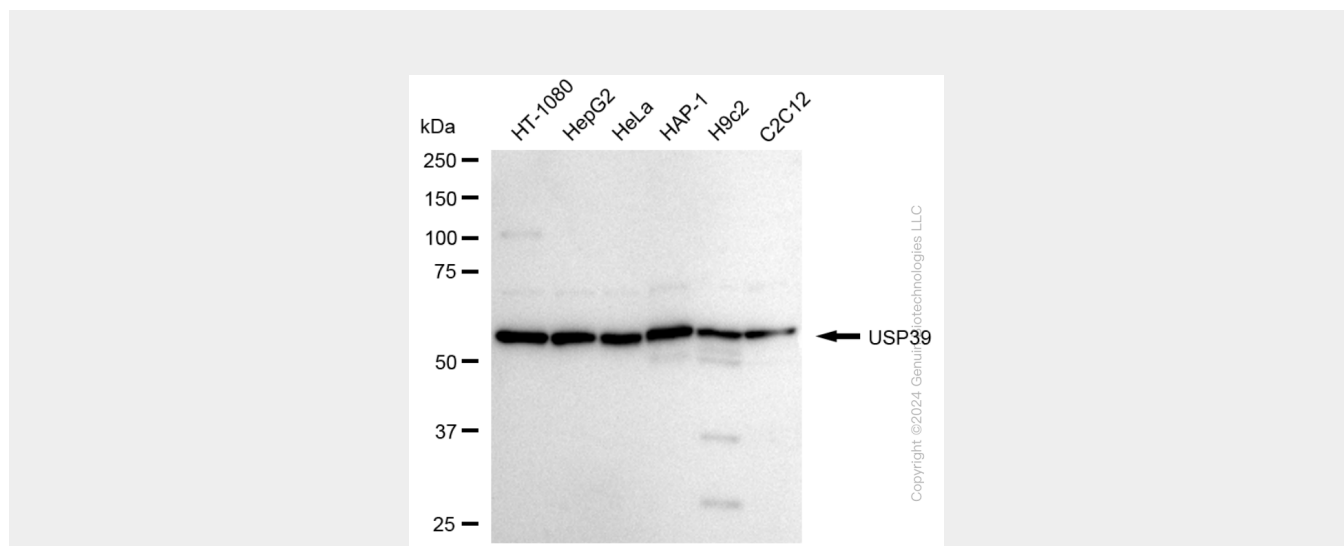
Nucleus

KD-Validated Anti-Ubiquitin Specific Peptidase 39 Rabbit Monoclonal Antibody - Protocols

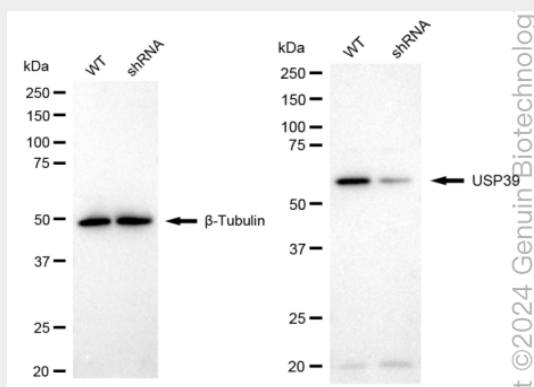
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

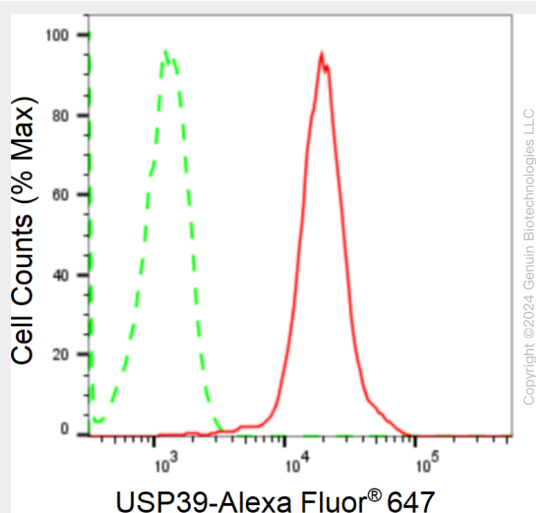
KD-Validated Anti-Ubiquitin Specific Peptidase 39 Rabbit Monoclonal Antibody - Images



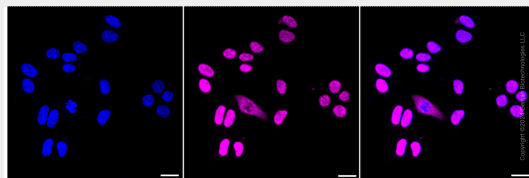
Western blotting analysis using anti-USP39 antibody (Cat#AGI1705). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-USP39 antibody (Cat#AGI1705, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-USP39 antibody (Cat#AGI1705). USP39 expression in wild type (WT) and USP39 shRNA knockdown (KD) HeLa cells with 20 μ g of total cell lysates. β -Tubulin serves as a loading control. The blot was incubated with anti-USP39 antibody (Cat#AGI1705, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of USP39 expression in HepG2 cells using anti-USP39 antibody (Cat#AGI1705, 1:2,000). Green, isotype control; red, USP39.



Immunocytochemical staining of HepG2 cells with anti-USP39 antibody (Cat#AGI1705, 1:1,000). Nuclei were stained blue with DAPI; USP39 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 μ m.