

USP49 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5947a

Specification

USP49 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	Q70CQ1
Other Accession	Q6P9L4 , NP_061031.2
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	33-61

USP49 Antibody (N-term) - Additional Information

Gene ID 25862

Other Names

Ubiquitin carboxyl-terminal hydrolase 49, Deubiquitinating enzyme 49, Ubiquitin thioesterase 49, Ubiquitin-specific-processing protease 49, USP49

Target/Specificity

This USP49 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 33-61 amino acids from the N-terminal region of human USP49.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

USP49 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

USP49 Antibody (N-term) - Protein Information

Name USP49

Function Deubiquitinase that plays a role in several cellular processes including transcriptional

regulation, cell cycle progression or innate immunity. Specifically deubiquitinates histone H2B at 'Lys- 120' (H2BK120Ub), a specific tag for epigenetic transcriptional activation and acts as a regulator of mRNA splicing (PubMed:[23824326](#)). Antagonizes DNA double-strand break-induced ubiquitination of H2AX thereby participating in the maintenance of genome integrity (PubMed:[35598681](#)). Plays a role in the negative regulation of cell proliferation through the AKT pathway by deubiquitinating FKBP51, leading to enhanced AKT1 dephosphorylation by PHLPP1 (PubMed:[28363942](#)). Also regulates the mitotic spindle checkpoint and prevents aneuploidy (PubMed:[36702832](#)). Negatively regulates cellular antiviral responses via deconjugating 'Lys-63'-linked ubiquitination of STING1 (PubMed:[30943264](#)). Significantly enhances the anti-HIV-1 activity of APOBEC3G. Mechanistically, stabilizes APOBEC3G by counteracting HIV-1 Vif-mediated APOBEC3G ubiquitination (PubMed:[31397674](#)).

Cellular Location

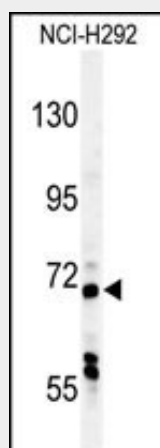
Nucleus. Cytoplasm

USP49 Antibody (N-term) - Protocols

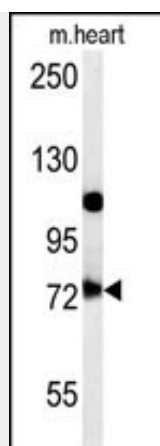
Provided below are standard protocols that you may find useful for product applications.

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

USP49 Antibody (N-term) - Images



USP49 Antibody (N-term) (Cat. #AP5947a) western blot analysis in NCI-H292 cell line lysates (35ug/lane). This demonstrates the USP49 antibody detected the USP49 protein (arrow).



USP49 Antibody (N-term) (Cat. #AP5947a) western blot analysis in mouse heart tissue lysates (15ug/lane). This demonstrates the USP49 antibody detected USP49 protein (arrow).