

USP36 Antibody (aa501-550)
Rabbit Polyclonal Antibody
Catalog # ALS15525**Specification**

USP36 Antibody (aa501-550) - Product Information

Application	IHC
Primary Accession	Q9P275
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	123kDa KDa

USP36 Antibody (aa501-550) - Additional Information**Gene ID** 57602**Other Names**

Ubiquitin carboxyl-terminal hydrolase 36, 3.4.19.12, Deubiquitinating enzyme 36, Ubiquitin thioesterase 36, Ubiquitin-specific-processing protease 36, USP36, KIAA1453

Target/Specificity

USP36 Antibody detects endogenous levels of total USP36 protein.

Reconstitution & Storage

Store at -20°C for up to one year.

Precautions

USP36 Antibody (aa501-550) is for research use only and not for use in diagnostic or therapeutic procedures.

USP36 Antibody (aa501-550) - Protein Information**Name** USP36 ([HGNC:20062](#))**Synonyms** KIAA1453**Function**

Deubiquitinase essential for the regulation of nucleolar structure and function (PubMed:29273634, PubMed:19208757, PubMed:22902402). Required for cell and organism viability (PubMed:29273634, PubMed:19208757, PubMed:22902402). Plays an important role in ribosomal RNA processing and protein synthesis, which is mediated, at least in part, through deubiquitination of DHX33, NPM1 and FBL, regulating their protein stability (PubMed:29273634, PubMed:19208757, PubMed:22902402, PubMed:36912080). Functions as a transcriptional repressor by deubiquitinating histone H2B at the promoters of genes critical for cellular differentiation, such as CDKN1A, thereby preventing histone H3 'Lys-4' trimethylation (H3K4) (PubMed:29274341). Specifically deubiquitinates MYC in the nucleolus, leading to prevent MYC degradation by the proteasome: acts by specifically interacting with isoform 3 of FBXW7 (FBXW7gamma) in the nucleolus and counteracting ubiquitination of MYC by the SCF(FBXW7) complex (PubMed:25775507). In contrast, it does not interact with isoform 1 of FBXW7 (FBXW7alpha) in the nucleoplasm (PubMed:25775507). Interacts to and regulates the actions of E3 ubiquitin-protein ligase NEDD4L over substrates such as NTRK1, KCNQ2 and KCNQ3, affecting their expression and functions (PubMed:27445338). Deubiquitinates SOD2, regulates SOD2 protein stability (PubMed:21268071). Deubiquitinase activity is required to control selective autophagy activation by ubiquitinated proteins (PubMed:22622177). Promotes CEP63 stabilization through 'Lys-48'-linked deubiquitination leading to increased stability (PubMed:35989368). Acts as a SUMO ligase to promote EXOSC10 sumoylation critical for the nucleolar RNA exosome function in rRNA processing (PubMed:36912080). Binds to pre-rRNAs (PubMed:36912080).

Cellular Location

Nucleus, nucleolus. Cytoplasm

Tissue Location

Broadly expressed..

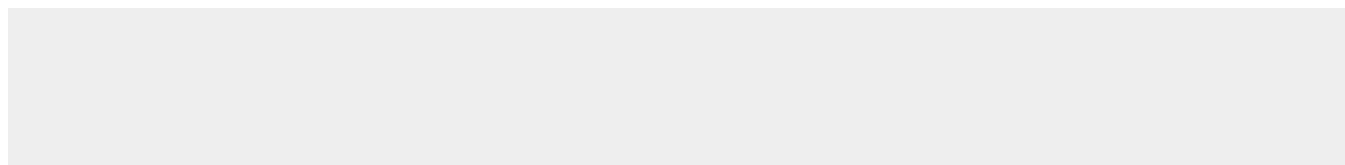
Volume

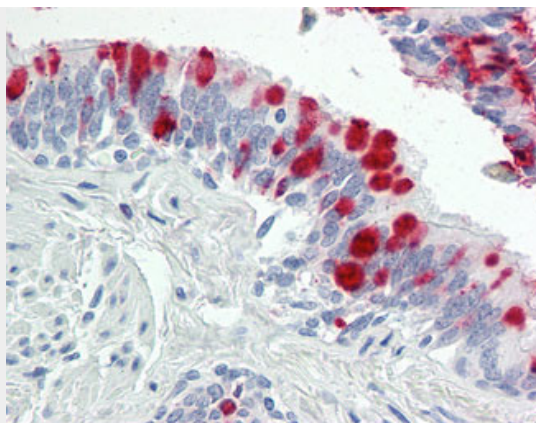
50 µl

USP36 Antibody (aa501-550) - 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](#)

USP36 Antibody (aa501-550) - Images



Anti-USP36 antibody IHC of human lung, respiratory epithelium.

USP36 Antibody (aa501-550) - Background

May be required for maintaining multiple types of adult stem cells. May function as a transcriptional repressor by continually deubiquitinating histone H2B at the promoters of genes critical for cellular differentiation, thereby preventing histone H3 'Lys-4' trimethylation (H3K4) (By similarity).

USP36 Antibody (aa501-550) - References

- Nagase T., et al. DNA Res. 7:143-150(2000).
Ota T., et al. Nat. Genet. 36:40-45(2004).
Bechtel S., et al. BMC Genomics 8:399-399(2007).
Scherl A., et al. Mol. Biol. Cell 13:4100-4109(2002).
Quesada V., et al. Biochem. Biophys. Res. Commun. 314:54-62(2004).