

Anti-USP36 Antibody
Catalog # AP53925**Specification**

Anti-USP36 Antibody - Product Information

Application	WB, IH
Primary Accession	Q9P275
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	122908

Anti-USP36 Antibody - Additional Information**Gene ID** 57602**Other Names**

KIAA1453; Ubiquitin carboxyl-terminal hydrolase 36; Deubiquitinating enzyme 36; Ubiquitin thioesterase 36; Ubiquitin-specific-processing protease 36

Target/Specificity

Recognizes endogenous levels of USP36 protein.

Dilution

WB~~1/500 - 1/1000

IH~~1/50 - 1/200

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C.Stable for 12 months from date of receipt

Anti-USP36 Antibody - 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).

target="_blank">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

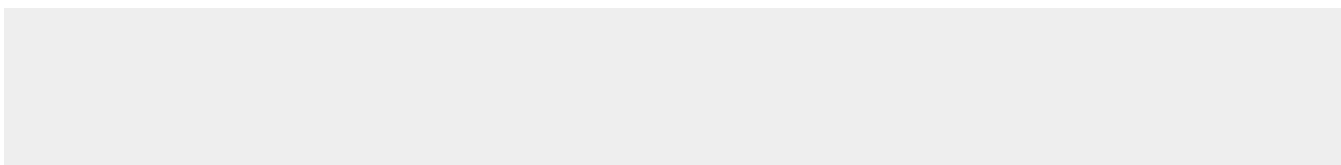
Tissue Location

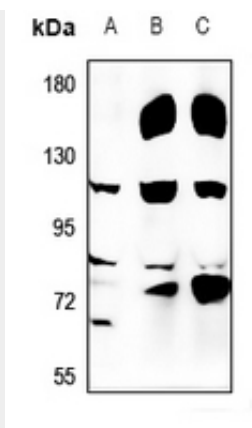
Broadly expressed..

Anti-USP36 Antibody - Protocols

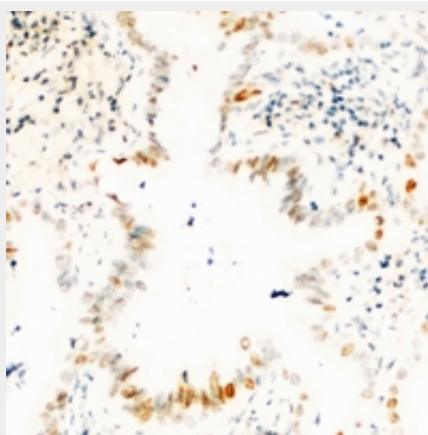
Provided below are standard protocols that you may find useful for product applications.

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

Anti-USP36 Antibody - Images



Western blot analysis of USP36 expression in MCF7 (A), HeLa (B), PC12 (C) whole cell lysates.



Immunohistochemical analysis of USP36 staining in human kidney formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Anti-USP36 Antibody - Background

Rabbit polyclonal antibody to USP36