

USP16 Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF2785a**Specification**

USP16 Antibody (internal region) - Product Information

Application	E
Primary Accession	O9Y5T5
Other Accession	NP_001027582.1 , NP_001001992.1 , 10600 , 74112 (mouse) , 288306 (rat)
Predicted Host	Human, Mouse, Rat, Dog, Horse
Clonality	Goat
Concentration	Polyclonal
Isotype	0.5 mg/ml
Calculated MW	IgG
	93570

USP16 Antibody (internal region) - Additional Information**Gene ID** 10600**Other Names**

Ubiquitin carboxyl-terminal hydrolase 16 {ECO:0000255|HAMAP-Rule:MF_03062}, 3.4.19.12
{ECO:0000255|HAMAP-Rule:MF_03062}, Deubiquitinating enzyme 16
{ECO:0000255|HAMAP-Rule:MF_03062}, Ubiquitin thioesterase 16
{ECO:0000255|HAMAP-Rule:MF_03062}, Ubiquitin-processing protease UBP-M,
Ubiquitin-specific-processing protease 16 {ECO:0000255|HAMAP-Rule:MF_03062}, USP16
{ECO:0000255|HAMAP-Rule:MF_03062}

Dilution

E~~N/A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

USP16 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

USP16 Antibody (internal region) - Protein Information**Name** USP16 {ECO:0000255|HAMAP-Rule:MF_03062}

Function

Specifically deubiquitinates 'Lys-120' of histone H2A (H2AK119Ub), a specific tag for epigenetic transcriptional repression, thereby acting as a coactivator (PubMed: [17914355](http://www.uniprot.org/citations/17914355)). Deubiquitination of histone H2A is a prerequisite for subsequent phosphorylation at 'Ser- 11' of histone H3 (H3S10ph), and is required for chromosome segregation when cells enter into mitosis (PubMed: [17914355](http://www.uniprot.org/citations/17914355)). In resting B- and T- lymphocytes, phosphorylation by AURKB leads to enhance its activity, thereby maintaining transcription in resting lymphocytes. Regulates Hox gene expression via histone H2A deubiquitination (PubMed: [17914355](http://www.uniprot.org/citations/17914355)). Prefers nucleosomal substrates (PubMed: [17914355](http://www.uniprot.org/citations/17914355)). Does not deubiquitinate histone H2B (PubMed: [17914355](http://www.uniprot.org/citations/17914355)). Also deubiquitinates non- histone proteins, such as ribosomal protein RPS27A: deubiquitination of monoubiquitinated RPS27A promotes maturation of the 40S ribosomal subunit (PubMed: [32129764](http://www.uniprot.org/citations/32129764)). Also mediates deubiquitination of tektin proteins (TEKT1, TEKT2, TEKT3, TEKT4 and TEKT5), promoting their stability.

Cellular Location

Nucleus. Cytoplasm

Tissue Location

Present in all the tissues examined including fetal brain, lung, liver, kidney, and adult heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas

USP16 Antibody (internal region) - 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](#)

USP16 Antibody (internal region) - Images**USP16 Antibody (internal region) - Background**

Reported variants represent identical protein: NP_001027582.1 NP_006438.1

USP16 Antibody (internal region) - References

Regulation of cell cycle progression and gene expression by H2A deubiquitination Joo HY, Zhai L, Yang C, Nie S, Erdjument-Bromage H, Tempst P, Chang C, Wang H Nature. 2007 Oct 25;449(7165):1068-72. Epub 2007 Oct 3 PMID: 17914355