

USP16 / UBP-M Antibody (N-Term)
Peptide-affinity purified goat antibody
Catalog # AF2343a**Specification**

USP16 / UBP-M Antibody (N-Term) - Product Information

Application	IHC, E
Primary Accession	Q9Y5T5
Other Accession	NP_006438.1 , NP_001001992.1 , 10600
Reactivity	Human
Predicted	Mouse, Rat, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	93570

USP16 / UBP-M Antibody (N-Term) - 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

IHC~~1:100~500

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 / UBP-M Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

USP16 / UBP-M Antibody (N-Term) - 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

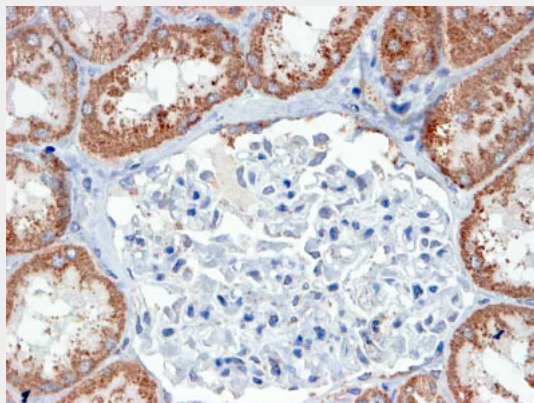
Tissue Location

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 / UBP-M 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](#)

USP16 / UBP-M Antibody (N-Term) - Images

AF2343a (4 µg/ml) staining of paraffin embedded Human Human Kidney. Steamed antigen retrieval with Tris/EDTA buffer pH 9, HRP-staining.

USP16 / UBP-M Antibody (N-Term) - Background

This antibody is expected to recognise isoform a (NP_006438.1) and isoform b (NP_001001992.1). Reported variants represent identical protein (NP_006438.1; NP_001027582.1).

USP16 / UBP-M Antibody (N-Term) - References

A mutant deubiquitinating enzyme (Ubp-M) associates with mitotic chromosomes and blocks cell division. Cai SY, Babbitt RW, Marchesi VT. Proc Natl Acad Sci U S A. 1999 Mar 16;96(6):2828-33. PMID: 10077596