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USP16 / UBP-M Antibody (N-Term)

Peptide-affinity purified goat antibody
Catalog # AF2343a

Specification

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

Application	**IHC**
Primary Accession	Q9Y5T5
Other Accession	NP_006438.1, NP_001001992.1, 10600
Reactivity	**Human**
Predicted	**Mouse, Rat, Pig, Dog, Cow**
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}

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:<a

href="http://www.uniprot.org/citations/17914355" target="_blank">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). 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). Prefers nucleosomal substrates (PubMed:17914355). Does not deubiquitinate histone H2B (PubMed:17914355). Also deubiquitinates non- histone proteins, such as ribosomal protein RPS27A: deubiquitination of monoubiquitinated RPS27A promotes maturation of the 40S ribosomal subunit (PubMed:32129764).

Cellular Location
Nucleus. Cytoplasm

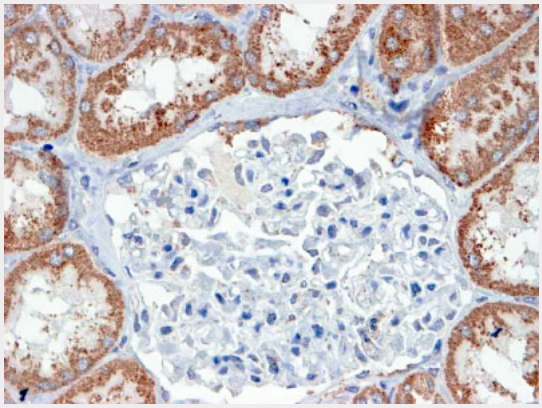
Tissue Location
Present in all the tissues examined including fetal brain, lung, liver, kidney, and adult heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas

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 Cytomety
- 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