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USP16 (18S13) Rabbit Monoclonal Antibody

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Catalog # AP93776

Product Information

Application	WB
Primary Accession	Q99LG0, Q2KJ09
Reactivity	Mouse, Rat
Clonality	Monoclonal
Calculated MW	93434

Additional Information

Gene ID	74112
Dilution	WB~~1:1000
Storage Conditions	-20℃

Protein Information

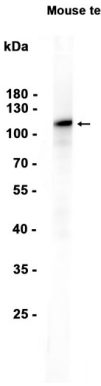
Name	Usp16
Function	Specifically deubiquitinates 'Lys-120' of histone H2A (H2AK119Ub), a specific tag for epigenetic transcriptional repression, thereby acting as a coactivator (PubMed:24034696). Deubiquitination of histone H2A is a prerequisite for subsequent phosphorylation at 'Ser- 11' of histone H3 (H3S10ph), and is required for chromosome segregation when cells enter into mitosis (PubMed:24034696). In resting B- and T- lymphocytes, phosphorylation by AURKB leads to enhance its activity, thereby maintaining transcription in resting lymphocytes (PubMed:24034696). Regulates Hox gene expression via histone H2A deubiquitination. Prefers nucleosomal substrates. Does not deubiquitinate histone H2B. Also deubiquitinates non-histone proteins, such as ribosomal protein RPS27A: deubiquitination of monoubiquitinated RPS27A promotes maturation of the 40S ribosomal subunit. Also mediates deubiquitination of tektin proteins (TEKT1, TEKT2, TEK3, TEKT4 and TEKT5), promoting their stability (PubMed:36206347).
Cellular Location	Nucleus {ECO:0000255|HAMAP-Rule:MF_03062}. Cytoplasm {ECO:0000255|HAMAP-Rule:MF_03062}

Background

Predicted to enable several functions, including cysteine-type peptidase activity; ubiquitin binding activity; and zinc ion binding activity. Involved in monoubiquitinated histone H2A deubiquitination and positive

regulation of transcription by RNA polymerase II. Predicted to be located in nucleus. Is expressed in several structures, including alimentary system; genitourinary system; integumental system; nervous system; and sensory organ. Orthologous to human USP16 (ubiquitin specific peptidase 16). [provided by Alliance of Genome Resources, Apr 2022]

Images



Western blot analysis of extracts from Mouse testis tissue using AP93776 at 1:1000.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.