

# USP16 Polyclonal Antibody

Catalog # AP73014

## Product Information

|                   |                        |
|-------------------|------------------------|
| Application       | WB, E                  |
| Primary Accession | <a href="#">Q9Y5T5</a> |
| Reactivity        | Human, Mouse, Rat      |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Calculated MW     | 93570                  |

## Additional Information

|                    |   |
|--------------------|---|
| Gene ID            | 10600   |
| Other Names        | USP16; MSTP039; Ubiquitin carboxyl-terminal hydrolase 16; Deubiquitinating enzyme 16; Ubiquitin thioesterase 16; Ubiquitin-processing protease UBP-M; Ubiquitin-specific-processing protease 16 |
| Dilution           | WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications. E~~N/A  |
| Format             | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.   |
| Storage Conditions | -20°C   |

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

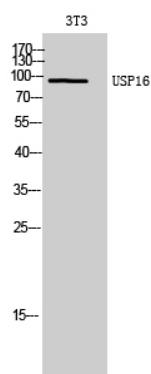
**Background**

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Specifically deubiquitinates 'Lys-120' of histone H2A (H2AK119Ub), a specific tag for epigenetic transcriptional repression, thereby acting as a coactivator. 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. 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. Prefers nucleosomal substrates. Does not deubiquitinate histone H2B.

**Images**

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Western Blot analysis of 3T3 cells using USP16 Polyclonal Antibody. Secondary antibody was diluted at 1:20000

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