

## Rabbit USP19 Polyclonal Antibody | anti-USP19 antibody

USP19 Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                                       |
|-----------|--------|-------------------|------------------------------------------------------------------------------------|
| AAA325231 | Rabbit | Human, Mouse, Rat | ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

USP19; Polyclonal Antibody; USP19 Antibody; 8430421I07Rik; AI047774; Deubiquitinating enzyme 19; Ubiquitin carboxyl terminal hydrolase 19; Ubiquitin carboxyl-terminal hydrolase 19; Ubiquitin specific peptidase 19; Ubiquitin specific processing protease 19; Ubiquitin specific protease 19; Ubiquitin thioesterase 19; Ubiquitin thiolesterase 19; Ubiquitin-specific-processing protease 19; UBP19\_HUMAN; Usp19; Zinc finger MYND domain containing protein 9; Zinc finger MYND domain-containing protein 9; ZMYND9; anti-USP19 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                          |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                   |
| Reactivity                                      | Human, Mouse, Rat                                                                                        |
| Clonality                                       | Polyclonal                                                                                               |
| Isotype                                         | IgG                                                                                                      |
| Specificity                                     | USP19 antibody detects endogenous levels of total USP19                                                  |
| Purity/Purification                             | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.            |
| Form/Format                                     | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.            |
| Concentration                                   | 1mg/ml (varies by lot)                                                                                   |
| Sequence Length                                 | 1419                                                                                                     |
| Applicable Applications for anti-USP19 antibody | ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot) |
| Immunogen                                       | A synthesized peptide                                                                                    |
| Subcellular Location                            | Endoplasmic Reticulum Membrane.                                                                          |
| Predicted Cross Reactivity                      | <b>Pig, Bovine, Horse, Sheep, Rabbit, Dog</b>                                                            |
| Similarity                                      | Pig (91%), Bovine (100%), Horse (91%), Sheep (100%), Rabbit (100%), Dog (100%)                           |
| Conjugation                                     | Unconjugated                                                                                             |
| Preparation and Storage                         | Store at -20 degree C. Stable for 12 months from date of receipt.                                        |

### IMAGES



#### IF (Immunofluorescence)

AAA325231 staining NIH-3T3 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



#### WB (Western Blot)

Western blot analysis of extracts from 3T3 cells, using USP19 antibody.



#### IHC (Immunohistochemistry)

AAA325231 at 1/100 staining Human lung cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

### ADDITIONAL INFORMATION

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-USP19 antibody</b> | <p>Function: Deubiquitinating enzyme that regulates the degradation of various proteins. Deubiquitinates and prevents proteasomal degradation of RNF123 which in turn stimulates CDKN1B ubiquitin-dependent degradation thereby playing a role in cell proliferation. Involved in decreased protein synthesis in atrophying skeletal muscle. Modulates transcription of major myofibrillar proteins. Also involved in turnover of endoplasmic-reticulum-associated degradation (ERAD) substrates. Regulates the stability of BIRC2/c-IAP1 and BIRC3/c-IAP2 by preventing their ubiquitination. Required for cells to mount an appropriate response to hypoxia and rescues HIF1A from degradation in a non-catalytic manner. Plays an important role in 17 beta-estradiol (E2)-inhibited myogenesis. Decreases the levels of ubiquitinated proteins during skeletal muscle formation and acts to repress myogenesis. Exhibits a preference towards 'Lys-63'-linked ubiquitin chains.</p> <p>Subunit Structure: Interacts with RNF123 (By similarity). Interacts with BIRC2/c-IAP1, BIRC3/c-IAP2 and XIAP/BIRC4. Interacts with HIF1A (via N-terminus).</p> <p>Similarity: Belongs to the peptidase C19 family.</p> |
|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 312596871                                                                                      |
| NCBI GeneID                      | 10869                                                                                          |
| NCBI Accession #                 | NP_001186089.1                                                                                 |
| NCBI GenBank Nucleotide #        | NM_001199160.1                                                                                 |
| UniProt Accession #              | O94966; Q3KQW4; Q641Q9; Q6NZY8; Q86XV9; A5PKX8; A6H8U2; B4DGT3; B4DTZ0; E7EN22; E7ETS0; E9PEG8 |
| Molecular Weight                 | Observed: 130 kD<br>Predicted: 146 kDa                                                         |
| NCBI Official Full Name          | ubiquitin carboxyl-terminal hydrolase 19 isoform 1                                             |
| NCBI Official Synonym Full Names | ubiquitin specific peptidase 19                                                                |
| NCBI Official Symbol             | USP19                                                                                          |
| NCBI Official Synonym Symbols    | ZMYND9                                                                                         |
| NCBI Protein Information         | ubiquitin carboxyl-terminal hydrolase 19                                                       |
| UniProt Protein Name             | Ubiquitin carboxyl-terminal hydrolase 19                                                       |
| UniProt Gene Name                | <b>USP19</b>                                                                                   |
| UniProt Synonym Gene Names       | KIAA0891; ZMYND9                                                                               |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.