

# SENP7 Rabbit pAb

Catalog # AP100220

## Product Information

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| <b>Application</b>             | IHC-P, IHC-F, IF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Primary Accession</b>       | <a href="#">Q9BQF6</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Other Accession</b>         | <a href="#">Q9BQF6</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Reactivity</b>              | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Predicted</b>               | Rat, Pig, Human, Rabbit, Dog, Horse, Sheep                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Host</b>                    | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Clonality</b>               | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Calculated MW</b>           | 119658                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Physical State</b>          | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Immunogen</b>               | KLH conjugated synthetic peptide derived from human SENP7                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Epitope Specificity</b>     | 931-1050/1050                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Isotype</b>                 | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Purity</b>                  | affinity purified by Protein A                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Buffer</b>                  | Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>SIMILARITY</b>              | Belongs to the peptidase C48 family.                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Important Note</b>          | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Background Descriptions</b> | The reversible posttranslational modification of proteins by the addition of small ubiquitin-like SUMO proteins (see SUMO1; MIM 601912) is required for many cellular processes. SUMO-specific proteases, such as SENP7, process SUMO precursors to generate a C-terminal diglycine motif required for the conjugation reaction. They also display isopeptidase activity for deconjugation of SUMO-conjugated substrates (Lima and Reverter, 2008 [PubMed 18799455]).[supplied by OMIM, Jun 2009] |

## Additional Information

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| <b>Gene ID</b>     | 57337                                                                                                                                                                                                                                                                                            |
| <b>Other Names</b> | 2410152H17Rik; 2810413I22Rik; 2900036C23Rik; 6030449K19Rik; SENP7_HUMAN; SENP7; SUMO-1-specific protease 2; Sentrin/SUMO-specific protease SENP7; 3.4.22.-; KIAA1707; SSP2; SUSP2; SENP7_MOUSE; SUMO specific peptidase 7; SUMO1/sentrin specific protease 7; SUMO1/sentrin specific peptidase 7 |
| <b>Dilution</b>    | IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500                                                                                                                                                                                                                                                     |
| <b>Storage</b>     | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.                                                                                                  |

## Protein Information

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| <b>Name</b>              | SENP7 {ECO:0000303 Ref.2, ECO:0000312 HGNC:HGNC:30402}                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Function</b>          | Protease that acts as a positive regulator of the cGAS-STING pathway by catalyzing desumoylation of CGAS. Desumoylation of CGAS promotes DNA-binding activity of CGAS, subsequent oligomerization and activation (By similarity). Deconjugates SUMO2 and SUMO3 from targeted proteins, but not SUMO1 (PubMed: <a href="#">18799455</a> ). Catalyzes the deconjugation of poly-SUMO2 and poly-SUMO3 chains (PubMed: <a href="#">18799455</a> ). Has very low efficiency in processing full-length SUMO proteins to their mature forms (PubMed: <a href="#">18799455</a> ). |
| <b>Cellular Location</b> | Cytoplasm {ECO:0000250 UniProtKB:Q8BUH8}.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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