

**SEN7 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP1241a****Specification**

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**SEN7 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [Q9BQF6](#)**SEN7 Antibody (C-term) Blocking Peptide - Additional Information**

Gene ID 57337

**Other Names**

Sentrin-specific protease 7, SUMO-1-specific protease 2, Sentrin/SUMO-specific protease SENP7, SENP7, KIAA1707, SSP2, SUSP2

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP1241a](/product/products/AP1241a) was selected from the C-term region of human SENP7. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**SEN7 Antibody (C-term) Blocking Peptide - Protein Information**

Name SENP7 {ECO:0000303|Ref.2, ECO:0000312|HGNC:HGNC:30402}

**Function**

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: [18799455](http://www.uniprot.org/citations/18799455)). Catalyzes the deconjugation of poly-SUMO2 and poly-SUMO3 chains (PubMed: [18799455](http://www.uniprot.org/citations/18799455)). Has very low efficiency in processing full-length SUMO proteins to their mature forms (PubMed: [18799455](http://www.uniprot.org/citations/18799455)).

**Cellular Location**

Cytoplasm {ECO:0000250|UniProtKB:Q8BUH8}.

### **SEN7 Antibody (C-term) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

### **SEN7 Antibody (C-term) Blocking Peptide - Images**

### **SEN7 Antibody (C-term) Blocking Peptide - Background**

SEN7 is a protease that may be involved in two essential functions in the SUMO pathway: processing of full-length SUMO1, SUMO2 and SUMO3 to their mature conjugatable forms and/or deconjugation of SUMO1, SUMO2 and SUMO3 from targeted substrate proteins.

### **SEN7 Antibody (C-term) Blocking Peptide - References**

Wiemann, S., et al., Genome Res. 11(3):422-435 (2001). Nagase, T., et al., DNA Res. 7(6):347-355 (2000).