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SENP7 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP1241a

Specification

SENP7 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q9BQF6

SENP7 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 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.

SENP7 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). Catalyzes the deconjugation of poly-SUMO2 and poly-SUMO3 chains (PubMed:18799455). Has very low efficiency in processing full-length SUMO proteins to their mature forms (PubMed:18799455).

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:Q8BUH8}.

SENP7 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

SENP7 Antibody (C-term) Blocking Peptide - Images

SENP7 Antibody (C-term) Blocking Peptide - Background

SENP7 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.

SENP7 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).