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SENP7 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1241a

Product Information

Application	WB, E
Primary Accession	Q9BQF6
Other Accession	A7MBJ2
Reactivity	Human, Mouse
Predicted	Bovine, Rat, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB4503
Calculated MW	119658
Antigen Region	709-740

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	This SENP7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 709-740 amino acids from the C-terminal region of human SENP7.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SENP7 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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}.

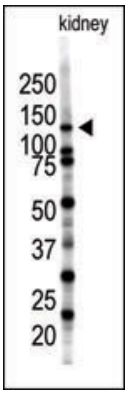
Background

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.

References

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

Images



Western blot analysis of SENP7 polyclonal antibody (Cat. #AP1241a) in mouse kidney tissue lysate (35ug/lane). SENP7(arrow) was detected using the purified Pab.

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