

# SENP2 Polyclonal Antibody

Catalog # AP72420

## Product Information

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<b>Application</b>	WB, IHC-P, IF, ICC, E
<b>Primary Accession</b>	<a href="#">Q9HC62</a>
<b>Reactivity</b>	Human, Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	67855

## Additional Information

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<b>Gene ID</b>	59343
<b>Other Names</b>	SENP2; KIAA1331; Sentrin-specific protease 2; Axam2; SMT3-specific isopeptidase 2; Smt3ip2; Sentrin/SUMO-specific protease SENP2
<b>Dilution</b>	WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications. IHC-P~~N/A IF~~1:50~200 ICC~~N/A E~~N/A
<b>Format</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
<b>Storage Conditions</b>	-20°C

## Protein Information

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<b>Name</b>	SENP2 {ECO:0000303 PubMed:10718198, ECO:0000312 HGNC:HGNC:23116}
<b>Function</b>	Protease that catalyzes two essential functions in the SUMO pathway (PubMed: <a href="#">11896061</a> , PubMed: <a href="#">12192048</a> , PubMed: <a href="#">15296745</a> , PubMed: <a href="#">20194620</a> , PubMed: <a href="#">21965678</a> ). The first is the hydrolysis of an alpha-linked peptide bond at the C-terminal end of the small ubiquitin-like modifier (SUMO) propeptides, SUMO1, SUMO2 and SUMO3 leading to the mature form of the proteins (PubMed: <a href="#">15296745</a> ). The second is the deconjugation of SUMO1, SUMO2 and SUMO3 from targeted proteins, by cleaving an epsilon-linked peptide bond between the C-terminal glycine of the mature SUMO and the lysine epsilon-amino group of the target protein (PubMed: <a href="#">15296745</a> , PubMed: <a href="#">20194620</a> , PubMed: <a href="#">21965678</a> ). May down-regulate CTNNB1 levels and thereby modulate the Wnt pathway (By similarity). Deconjugates SUMO2 from MTA1 (PubMed: <a href="#">21965678</a> ). Plays a dynamic role in adipogenesis by desumoylating and promoting the stabilization of CEBPB (PubMed: <a href="#">20194620</a> ). Acts as a regulator of the cGAS-STING pathway by catalyzing desumoylation of CGAS and STING1 during

the late phase of viral infection (By similarity).

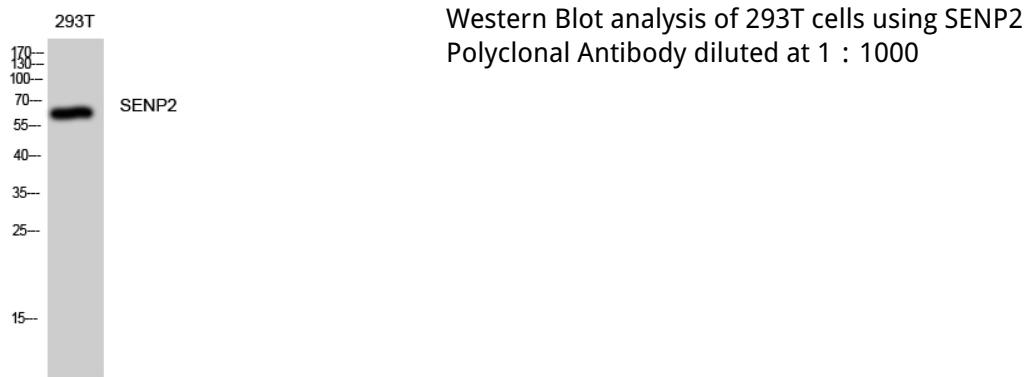
## Cellular Location

Nucleus, nuclear pore complex. Nucleus membrane; Peripheral membrane protein; Nucleoplasmic side. Cytoplasm Note=Shuttles between cytoplasm and nucleus

## Background

Protease that catalyzes two essential functions in the SUMO pathway. The first is the hydrolysis of an alpha-linked peptide bond at the C-terminal end of the small ubiquitin-like modifier (SUMO) propeptides, SUMO1, SUMO2 and SUMO3 leading to the mature form of the proteins. The second is the deconjugation of SUMO1, SUMO2 and SUMO3 from targeted proteins, by cleaving an epsilon-linked peptide bond between the C-terminal glycine of the mature SUMO and the lysine epsilon-amino group of the target protein. May down-regulate CTNNB1 levels and thereby modulate the Wnt pathway. Deconjugates SUMO2 from MTA1. Plays a dynamic role in adipogenesis by desumoylating and promoting the stabilization of CEBPB (PubMed:[20194620](https://pubmed.ncbi.nlm.nih.gov/20194620/)).

## Images



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