

# Anti-SEN2 Rabbit Monoclonal Antibody

Catalog # ABO15900

## Product Information

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|                   |                                                                                                                 |
|-------------------|-----------------------------------------------------------------------------------------------------------------|
| Application       | WB, IHC, IF, ICC                                                                                                |
| Primary Accession | <a href="#">Q9HC62</a>                                                                                          |
| Host              | Rabbit                                                                                                          |
| Isotype           | IgG                                                                                                             |
| Reactivity        | Human                                                                                                           |
| Clonality         | Monoclonal                                                                                                      |
| Format            | Liquid                                                                                                          |
| Description       | Anti-SEN2 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human. |

## Additional Information

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|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Gene ID                  | 59343                                                                                                                                      |
| Other Names              | Sentrin-specific protease 2, 3.4.22.-, Axam2, SENP2<br>{ECO:0000303   PubMed:10718198, ECO:0000312   HGNC:HGNC:23116}                      |
| Calculated MW            | 67855                                                                                                                                      |
| Application Details      | WB 1:500-1:2000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200                                                                                     |
| Source                   | Eukaryota                                                                                                                                  |
| Contents                 | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.                        |
| Clone Names<br>Immunogen | Clone: 24S77<br>A synthesized peptide derived from human SENP2                                                                             |
| Purification             | Affinity-chromatography                                                                                                                    |
| Storage                  | Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles. |

## Protein Information

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| Name     | SEN2 {ECO:0000303   PubMed:10718198,<br>ECO:0000312   HGNC:HGNC:23116}                                                                                                           |
| Function | Protease that catalyzes two essential functions in the SUMO pathway<br>(PubMed: <a href="#">11896061</a> , PubMed: <a href="#">12192048</a> , PubMed: <a href="#">15296745</a> , |

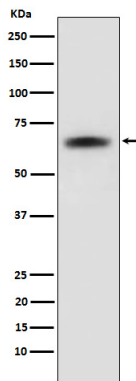
PubMed:[20194620](#), PubMed:[21965678](#)). The first is the hydrolysis of an alpha-linked peptide bond at the C-terminal end of the small ubiquitin- like modifier (SUMO) propeptides, SUMO1, SUMO2 and SUMO3 leading to the mature form of the proteins (PubMed:[15296745](#)). The second is the deconjugation 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:[15296745](#), PubMed:[20194620](#), PubMed:[21965678](#)). May down-regulate CTNNB1 levels and thereby modulate the Wnt pathway (By similarity). Deconjugates SUMO2 from MTA1 (PubMed:[21965678](#)). Plays a dynamic role in adipogenesis by desumoylating and promoting the stabilization of CEBPB (PubMed:[20194620](#)). 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

## Images

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Western blot analysis of SENP2 expression in 293T cell lysate.

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