

# SEPN1/Selenoprotein N Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP57859

## Product Information

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| <b>Application</b>       | IHC-P, IHC-F, IF, ICC, E |
| <b>Primary Accession</b> | <a href="#">Q9NZV5</a>   |
| <b>Reactivity</b>        | Rat, Pig, Dog, Bovine    |
| <b>Host</b>              | Rabbit                   |
| <b>Clonality</b>         | Polyclonal               |
| <b>Calculated MW</b>     | 65813                    |

## Additional Information

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| <b>Gene ID</b>     | 57190   |
| <b>Other Names</b> | Selenoprotein N, SeIN, SELENON {ECO:0000303   PubMed:27645994, ECO:0000312   HGNC:HGNC:15999}   |
| <b>Dilution</b>    | IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000   |
| <b>Storage</b>     | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |

## Protein Information

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| <b>Name</b>              | SELENON {ECO:0000303   PubMed:27645994, ECO:0000312   HGNC:HGNC:15999}   |
| <b>Function</b>          | [Isoform 2]: Plays an important role in cell protection against oxidative stress and in the regulation of redox-related calcium homeostasis. Regulates the calcium level of the ER by protecting the calcium pump ATP2A2 against the oxidoreductase ERO1A-mediated oxidative damage. Within the ER, ERO1A activity increases the concentration of H(2)O(2), which attacks the luminal thiols in ATP2A2 and thus leads to cysteinyl sulfenic acid formation (-SOH) and SEPN1 reduces the SOH back to free thiol (-SH), thus restoring ATP2A2 activity (PubMed: <a href="#">25452428</a> ). Acts as a modulator of ryanodine receptor (RyR) activity: protects RyR from oxidation due to increased oxidative stress, or directly controls the RyR redox state, regulating the RyR-mediated calcium mobilization required for normal muscle development and differentiation (PubMed: <a href="#">18713863</a> , PubMed: <a href="#">19557870</a> ). |
| <b>Cellular Location</b> | [Isoform 2]: Endoplasmic reticulum membrane  |
| <b>Tissue Location</b>   | Isoform 1 and isoform 2 are expressed in skeletal muscle, brain, lung and  |

placenta. Isoform 2 is also expressed in heart, diaphragm and stomach.

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