

SEPN1/Selenoprotein N Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57859**Specification**

SEPN1/Selenoprotein N Polyclonal Antibody - Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	O9NZV5
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	65813

SEPN1/Selenoprotein N Polyclonal Antibody - Additional Information**Gene ID** 57190**Other Names**Selenoprotein N, SeIN, SELENON {ECO:0000303|PubMed:27645994,
ECO:0000312|HGNC:HGNC:15999}**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glycerol

Storage

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.

SEPN1/Selenoprotein N Polyclonal Antibody - Protein Information**Name** SELENON {ECO:0000303|PubMed:27645994, ECO:0000312|HGNC:HGNC:15999}**Function**

[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 H₂O₂, 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:[25452428](http://www.uniprot.org/citations/25452428)). 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:[18713863](http://www.uniprot.org/citations/18713863)), PubMed:[19557870](http://www.uniprot.org/citations/19557870)).

Cellular Location

[Isoform 2]: Endoplasmic reticulum membrane

Tissue Location

Isoform 1 and isoform 2 are expressed in skeletal muscle, brain, lung and placenta. Isoform 2 is also expressed in heart, diaphragm and stomach.

SEPN1/Selenoprotein N Polyclonal Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SEPN1/Selenoprotein N Polyclonal Antibody - Images