

Datasheet for ABIN233833
anti-Selenoprotein W antibody

2 Images

[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	Selenoprotein W (SEPW1)
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Selenoprotein W antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a recombinant protein corresponding to full-length mouse SelW protein. Immunogen Type: RecombinantProtein
Isotype:	IgG
Specificity:	This product was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody is specific for mouse Selenoprotein W. A BLAST analysis was used to suggest cross-reactivity with SelW from rat based on a 98% homology with the immunizing sequence. Partial reactivity is expected against human-derived SelW based on an 87% homology with the immunogen. Cross-reactivity with SelW from other sources has not been determined.
Characteristics:	This antibody is designed, produced, and validated as part of a collaboration with the National Cancer Institute (NCI) and is suitable for Cancer, Immunology and Nuclear Signaling research. Selenoprotein W was first purified and characterized from rat skeletal muscle. The function of

Product Details

selenoprotein W is not entirely clear, but the presence of the bound glutathione moiety indicates that SelW is thought to function in oxidation-reduction catalysis and may play a role in selenium deficiency disorders such as white muscle disease in sheep and Keshan disease in humans. Recently, overexpression of SelW was shown to be glutathione dependent and was shown to markedly reduce the sensitivity of cell lines to H₂O₂ cytotoxicity.

Purification: affinity purified

Sterility: Sterile filtered

Target Details

Target: Selenoprotein W (SEPW1)

Alternative Name: Selenoprotein W ([SEPW1 Products](#))

Background: This antibody is designed, produced, and is suitable for Cancer, Immunology and Nuclear Signaling research. Selenoprotein W was first purified and characterized from rat skeletal muscle. The function of selenoprotein W is not entirely clear, but the presence of the bound glutathione moiety indicates that SelW is thought to function in oxidation–reduction catalysis and may play a role in selenium deficiency disorders such as white muscle disease in sheep and Keshan disease in humans. Recently, overexpression of SelW was shown to be glutathione dependent and was shown to markedly reduce the sensitivity of cell lines to H₂O₂ cytotoxicity. Synonyms: Selenoprotein W SelW

Gene ID: 20364, 2384723

UniProt: [P63300](#)

Pathways: [Cell RedoxHomeostasis](#)

Application Details

Application Notes: This affinity purified antibody has been tested for use in ELISA and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 9.6 kDa in size corresponding to SelW by western blotting in the appropriate cell lysate or extract. This antibody is capable of detecting both overexpressed and endogenous SelW.

Comment: Gene Name: SEPW1

Restrictions: For Research Use only

Handling

Format:	Liquid
Concentration:	1.38 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	Store vial at 4 °C prior to restoration. For extended storage aliquot contents and freeze at -20 °C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4 °C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is three (3) months from date of opening.
Expiry Date:	3 months

Images

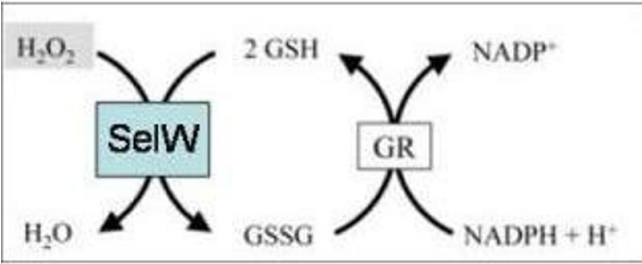
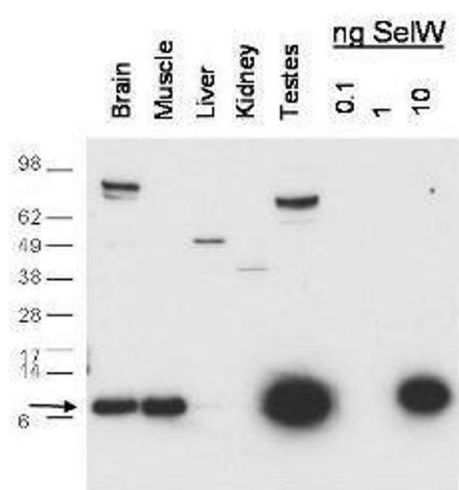


Image 1. Proposed pathway for Selenoprotein W function.



Western Blotting

Image 2. Western blot using anti-SelW antibody shows detection of endogenous SelW in mouse brain, muscle and testes lysates. Recombinant SelW is also detected at 10 ng (right lanes). The arrow corresponds with SelW protein at 9.6 kDa. The primary antibody was used at a 1:1000 dilution. Personal Communication, D. Hatfield, NCI, Bethesda, MD.