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Datasheet for ABIN7168773

anti-Selenoprotein N antibody (AA 135-219) (FITC)

Overview

Quantity:	100 µg
Target:	Selenoprotein N (SELENON)
Binding Specificity:	AA 135-219
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Selenoprotein N antibody is conjugated to FITC
Application:	Please inquire

Product Details

Immunogen:	Recombinant Human Selenoprotein N protein (135-219AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	Selenoprotein N (SELENON)
Alternative Name:	SELENON (SELENON Products)
Background:	Background: 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

Target Details

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). 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:19557870, PubMed:18713863).

Aliases: CFTD antibody, MDRS1 antibody, RSMD1 antibody, RSS antibody, Selenoprotein N antibody, Selenoprotein N, 1 antibody, SelN antibody, SELN_HUMAN antibody, sepn1 antibody

UniProt: [Q9NZV5](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.