

S100A1 Polyclonal Antibody

catalog number: AN006750L

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Reactivity	Mouse
Immunogen	Recombinant Human S100A1 protein expressed by E.coli
Host	Rabbit
Isotype	IgG
Purification	Antigen Affinity Purification
Buffer	PBS with 0.05% Proclin300, 1% protective protein and 50% glycerol, pH7.4

Applications Recommended Dilution

WB	1:250-1:500
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Data



Western blot with Anti S100A1 Polyclonal antibody at dilution of 1:1000. Lane 1: Mouse heart tissue lysate.

Observed-MW:12 kDa

Calculated-MW:11 kDa

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	The product is shipped with ice pack, upon receipt, store it immediately at the temperature recommended.

Background

Small calcium binding protein that plays important roles in several biological processes such as Ca²⁺ homeostasis, chondrocyte biology and cardiomyocyte regulation. In response to an increase in intracellular Ca²⁺ levels, binds calcium which triggers conformational changes. These changes allow interactions with specific target proteins and modulate their activity. Regulates a network in cardiomyocytes controlling sarcoplasmic reticulum Ca²⁺ cycling and mitochondrial function through interaction with the ryanodine receptors RYR1 and RYR2, sarcoplasmic reticulum Ca²⁺-ATPase/ATP2A2 and mitochondrial F1-ATPase. Facilitates diastolic Ca²⁺ dissociation and myofilament mechanics in order to improve relaxation during diastole.

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