

S100A1 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP11779b**Specification**

S100A1 Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [P23297](#)**S100A1 Antibody (C-term) Blocking peptide - Additional Information**

Gene ID 6271

Other Names

Protein S100-A1, S-100 protein alpha chain, S-100 protein subunit alpha, S100 calcium-binding protein A1, S100A1, S100A

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

S100A1 Antibody (C-term) Blocking peptide - Protein Information

Name S100A1

Synonyms S100A

Function

Small calcium binding protein that plays important roles in several biological processes such as Ca(2+) homeostasis, chondrocyte biology and cardiomyocyte regulation (PubMed:12804600). In response to an increase in intracellular Ca(2+) levels, binds calcium which triggers conformational changes (PubMed:23351007). These changes allow interactions with specific target proteins and modulate their activity (PubMed:22399290). Regulates a network in cardiomyocytes controlling sarcoplasmic reticulum Ca(2+) cycling and mitochondrial function through interaction with the ryanodine receptors RYR1 and RYR2, sarcoplasmic reticulum Ca(2+)-ATPase/ATP2A2 and mitochondrial F1-ATPase (PubMed:12804600). Facilitates diastolic Ca(2+) dissociation and myofilament mechanics in order to improve relaxation during diastole (PubMed:11717446).

Cellular Location

Cytoplasm. Sarcoplasmic reticulum. Mitochondrion {ECO:0000250|UniProtKB:P56565}

Tissue Location

Highly prevalent in heart (PubMed:12804600, PubMed:1384693). Also found in lesser quantities in skeletal muscle and brain (PubMed:1384693).

S100A1 Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

S100A1 Antibody (C-term) Blocking peptide - Images**S100A1 Antibody (C-term) Blocking peptide - Background**

This gene encodes a member of the beta tubulin protein family. Beta tubulins are one of two core protein families (alpha and beta tubulins) that heterodimerize and assemble to form microtubules. This protein is specifically expressed in platelets and megakaryocytes and may be involved in proplatelet production and platelet release. A mutation in this gene is associated with autosomal dominant macrothrombocytopenia. Two pseudogenes of this gene are found on chromosome Y.

S100A1 Antibody (C-term) Blocking peptide - References

Anton, A.I., et al. Ann. Hematol. 89(11):1147-1154(2010) Yin, S., et al. Mol. Cancer Ther. 9(2):327-335(2010) Xu, W., et al. Mol. Cancer Ther. 8(12):3318-3330(2009) Joe, P.A., et al. J. Biol. Chem. 284(7):4283-4291(2009) Navarro-Nunez, L., et al. Thromb. Haemost. 100(6):1211-1213(2008)