

Rabbit anti-Mouse S100A1 Monoclonal Antibody | anti-S100A1 antibody

Recombinant Anti-S100A1 Antibody, Rabbit Monoclonal

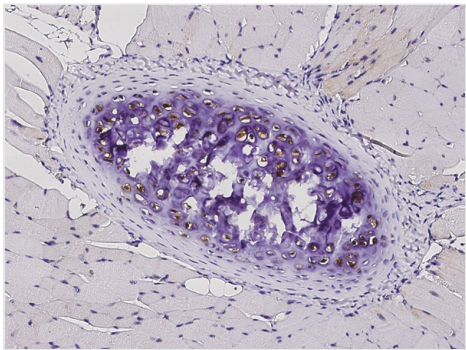
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA257121	Rabbit	Mouse	Immunohistochemistry

PRODUCT SYNONYMS

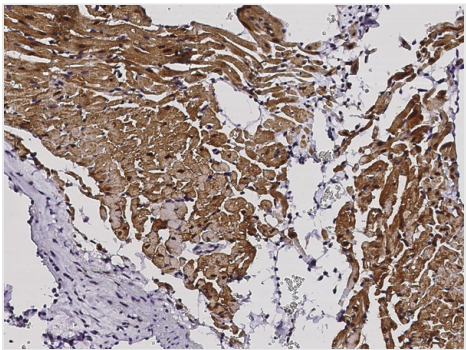
S100A1; Monoclonal Antibody; Recombinant Anti-S100A1 Antibody; Rabbit Monoclonal; S100A1 Antibody; Rabbit MAb; S100 calcium binding protein A1; Anti-AI266795 Antibody; Anti-S100 Antibody; Anti-S100a Antibody; anti-S100A1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	004
Specificity	Mouse S100A1. No cross-reactivity in ELISA with Mouse S100B
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-S100A1 antibody	IHC (Immunohistochemistry)
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Mouse S100A1 protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Mouse S100A1 (rM S100A1).
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



IHC (Immunohistochemistry)
Immunochemical staining of human mouse S100A1 in mouse bone with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections). Positive staining was localized to chondrocyte.



IHC (Immunohistochemistry)
Immunochemical staining of mouse S100A1 in mouse heart with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections).

ADDITIONAL INFORMATION

Related Product Information for anti-S100A1 antibody	S100A1 is a Ca ²⁺ binding protein of the EF-hand type that belongs to the S100 protein family. S100 proteins consisting of at least 19 members exist as dimers in the cytoplasm and/or nucleus of a wide range of cells, and are involved in the regulation of a number of cellular processes such as cell-cycle progression and cell differentiation. This protein has been shown to function in the processes including stimulation of Ca ²⁺ -induced Ca ²⁺ release, inhibition of microtubule assembly, and inhibition of PKC-mediated phosphorylation. Phosphoglucomutase is a target protein whose activity is antagonistically regulated by S100A1, and recently, S100A1 is also identified as a potent molecular chaperone and a new member of the Hsp70/Hsp90 multichaperone complex. S100A1 displays a tissue-specific expression pattern with highest levels in myocardium and is considered to be an important regulator of cardiac contractility. Accordingly, reduced expression or mutations of S100A1 gene have been implicated in cardiomyopathies.
Product Categories/Family for anti-S100A1 antibody	Calcium-binding Proteins and Related Molecules
References	Remppis, A.et al., 1996, Biochim. Biophys. Acta. 1313: 253-257. Most, P. et al., 2001, Proc. Natl. Acad. Sci. U.S.A. 98: 13889-13894 Okada, M. et al., 2004, J. Biol. Chem. 279: 4221-4233. Schafer, W.E. et al., 1995, Genomics. 25: 638-643. Landar, A. et al., 1996, Cell. Calcium. 20: 279-285.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6755386
NCBI GeneID	20193
NCBI Accession #	NP_035439.1
NCBI GenBank Nucleotide #	NM_011309.3
UniProt Accession #	P56565 ; O88949
Molecular Weight	10,505 Da
NCBI Official Full Name	protein S100-A1
NCBI Official Synonym Full Names	S100 calcium binding protein A1
NCBI Official Symbol	S100a1
NCBI Official Synonym Symbols	S100; S100a; AI266795
NCBI Protein Information	protein S100-A1; S-100 protein alpha chain; S-100 protein subunit alpha; S100 calcium-binding protein A1
UniProt Protein Name	Protein S100-A1
UniProt Gene Name	S100a1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/monoclonal/s100a1-antibody-clone-004-immunohistochemistry-elisa/257121>