

## Anti-S100A1 Antibody (1A890)

### Product Details

Ig Type:	Rabbit IgG
Reactivity:	Mouse
Conjugation:	Unconjugated
Clone:	1A890
Purification:	Protein A

### Applications

Verified Activity:	1. Immunochemical staining of mouse S100A1 in mouse heart with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections). 2. 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.
Application:	IHC-P
Recommended	IHC-P: 1:100-1:500

### Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

### Antigen Details

Immunogen:	Recombinant Protein: Mouse S100A1 protein (TMPY-02532)
Antigen Species:	Mouse
Synonyms:	S100a;S100;AI266795;S100 calcium binding protein A1
Biology Area:	Calcium-binding Proteins and Related Molecules

### Research Background

S100A1 is a Ca<sup>2+</sup>-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<sup>2+</sup>-induced Ca<sup>2+</sup>-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.

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