



# Rabbit Anti-Mouse S100A1 monoclonal antibody, clone S150 (CABT-ZB657)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Specificity</b>	It reacts with Mouse S100A1
<b>Target</b>	S100A1
<b>Immunogen</b>	Recombinant Mouse S100A1 Protein
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Mouse
<b>Clone</b>	S150
<b>Purification</b>	Protein A purified
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	ELISA(cap) We recommend the following for sandwich ELISA (Capture - Detection): CABT-ZB657 - CABT-ZB997 This antibody will detect S100A1 in antibody pair set. [ABPR-ZB236]
<b>Preparation</b>	This antibody was obtained from a rabbit immunized with purified, recombinant Mouse S100A1.
<b>Format</b>	Purified, Liquid
<b>Concentration</b>	Lot specific
<b>Size</b>	50 µL, 100 µL, 1 mL

Buffer	PBS
Preservative	None
Storage	<p>This antibody can be stored at 2°C-8°C for one month without detectable loss of activity.</p> <p>Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.</p>
Ship	Wet ice

## BACKGROUND

<b>Introduction</b>	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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<b>Keywords</b>	S100A1; S100 calcium binding protein A1; S100; S100A
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## GENE INFORMATION

<b>Synonyms</b>	S100A1; S100 calcium binding protein A1; S100; S100A; S100-alpha; protein S100-A1; S100 alpha; S-100 protein alpha chain; S-100 protein subunit alpha; S100 calcium-binding protein A1; S100 protein, alpha polypeptide
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<b>Entrez Gene ID</b>	<a href="#">20193</a>
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<b>UniProt ID</b>	<a href="#">P56565</a>
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