

Datasheet for ABIN966986

anti-S100A1 antibody[Go to Product page](#)**3** Publications

Overview

Quantity:	0.1 mL
Target:	S100A1
Reactivity:	Human
Host:	Please inquire
Clonality:	Monoclonal
Conjugate:	This S100A1 antibody is un-conjugated
Application:	ELISA

Product Details

Isotype:	IgG1
Specificity:	Ni-NTA purified truncated recombinant S100A expressed in E. Coli strain BL21 (DE3)
Purification:	Antibodies are purified by protein A affinity chromatography

Target Details

Target:	S100A1
Alternative Name:	S100A (S100A1 Products)
Background:	S100 calcium binding protein A1 (S100-alpha/ S100A1), The protein encoded by this gene is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100 genes include at least 13 members which are located as a cluster on

Target Details

chromosome 1q21. This protein may function in stimulation of Ca²⁺-induced Ca²⁺ release, inhibition of microtubule assembly, and inhibition of protein kinase C-mediated phosphorylation. Reduced expression of this protein has been implicated in cardiomyopathies.

Gene ID: 6271

Pathways: [Regulation of Muscle Cell Differentiation](#), [Toll-Like Receptors Cascades](#), [S100 Proteins](#)

Application Details

Application Notes: Dilution ELISA: Propose dilution 1: 10,000 Determining optimal working dilutions by titration test.

Restrictions: For Research Use only

Handling

Format: Liquid

Storage: -20 °C

Publications

Product cited in: Koenig, Wojcieszyn, Weeks, Modiano: "Expression of S100a, vimentin, NSE, and melan A/MART-1 in seven canine melanoma cells lines and twenty-nine retrospective cases of canine melanoma." in: **Veterinary pathology**, Vol. 38, Issue 4, pp. 427-35, (2001) ([PubMed](#)).

Hoyaux, Decaestecker, Heizmann, Vogl, Schäfer, Salmon, Kiss, Pochet: "S100 proteins in Corpora amylacea from normal human brain." in: **Brain research**, Vol. 867, Issue 1-2, pp. 280-8, (2000) ([PubMed](#)).

Pingerelli, Mizukami, Wagner, Bartnicki, Oliver: "Investigation of the Ca²⁺(+)-dependent interaction of trifluoperazine with S100a: a 19F NMR and circular dichroism study." in: **Journal of protein chemistry**, Vol. 9, Issue 2, pp. 169-75, (1990) ([PubMed](#)).