Datasheet for ABIN1724663

anti-S100A1 antibody

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Overview

Quantity:	100 µL
Target:	S100A1
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This S100A1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

Product Details

Immunogen:	Purified recombinant fragment of S100A1 expressed in E. coli.
Clone:	2C8B8
Isotype:	IgG1
Purification:	purified

Target Details

Target:	S100A1
Alternative Name:	S100A1 (S100A1 Products)
Background:	Description: S100 calcium binding protein A1 (S100-alpha/ S100A1), it 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

Target Details

	include at least 13 members which are located as a cluster on 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. Aliases: S100, S100A, S100-alpha, S100A1
Gene ID:	6271
HGNC:	6271
Pathways:	Regulation of Muscle Cell Differentiation, Toll-Like Receptors Cascades, S100 Proteins

Application Details

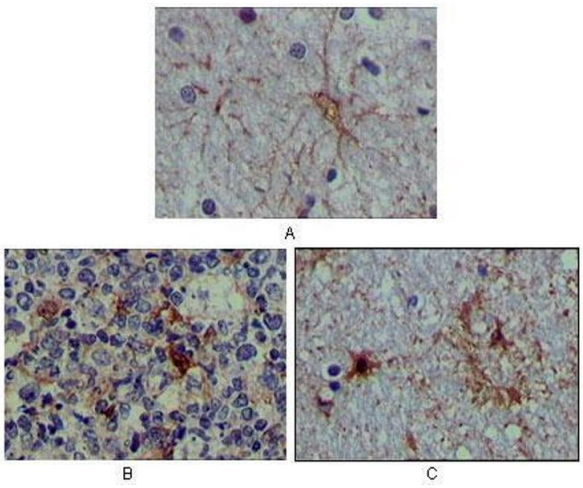
Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Ascitic fluid containing 0.03 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	4°C, -20°C for long term storage

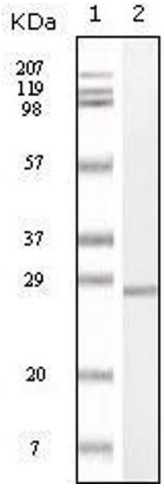
Publications

Product cited in:	Zaha, Young: "AMP-activated protein kinase regulation and biological actions in the heart." in: **Circulation research**, Vol. 111, Issue 6, pp. 800-14, (2012) (PubMed). Oliveira, Zhang, Solis, Isackson, Bellahcene, Yavari, Pinter, Davies, Ge, Ashrafian, Walker, Carling, Watkins, Casadei, Redwood: "AMP-activated protein kinase phosphorylates cardiac troponin I and alters contractility of murine ventricular myocytes." in: **Circulation research**, Vol. 110, Issue 9, pp. 1192-201, (2012) (PubMed).



Immunohistochemistry

Image 1. Immunohistochemical analysis of paraffin-embedded human brain tissue (A), lymphoid follicles tissue (B) and interbrain tissue (C), showing cytoplasmic localization using S100A mouse mAb with DAB staining.



Western Blotting

Image 2. Western blot analysis using S100A mouse mAb against truncated S100A recombinant protein.