

S100A1 Recombinant monoclonal antibody

Catalog Number: 88164-1-RR

Basic Information

Catalog Number: 88164-1-RR	GenBank Accession Number: BC014392	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 6271	CloneNo.: 252961A11
Source: Rabbit	UNIPROT ID: P23297	Recommended Dilutions: WB: 1:2000-1:10000 IHC: 1:250-1:1000 IF/ICC: 1:200-1:800
Isotype: IgG	Full Name: S100 calcium binding protein A1	
Immunogen Catalog Number: AG8871	Calculated MW: 94 aa, 11 kDa	
	Observed MW: 10 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Species Specificity: human, mouse	WB : mouse heart tissue, human heart tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : human tonsillitis tissue,
	IF/ICC : A375 cells,

Background Information

S100A1 belongs to the S100 protein family, which represents the largest group among EF-hand Ca²⁺-binding proteins exclusively expressed in vertebrates. S100 proteins have been described as central regulators of numerous cellular and molecular processes, often operating in a cell-type-specific manner (PMID: 11991838). S100A1 is a central regulator of Ca²⁺-driven networks that orchestrates compartmentalized Ca²⁺ fluxes in the heart (PMID: 22336719, PMID: 26021637). S100A1 is primarily expressed in cardiomyocytes (CM). Endothelial cells (EC) express significantly lower S100A1 levels, whereas fibroblasts do not express S100A1 (PMID: 38641766).

Storage

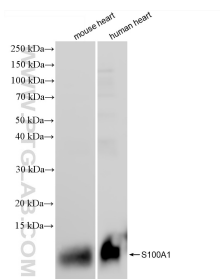
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

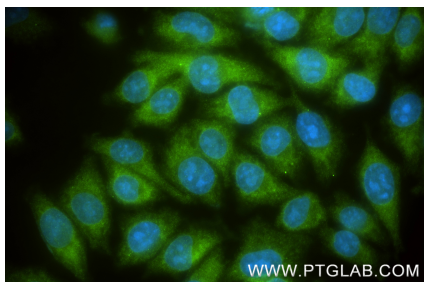
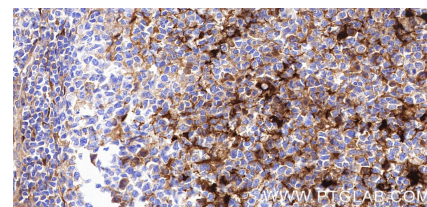
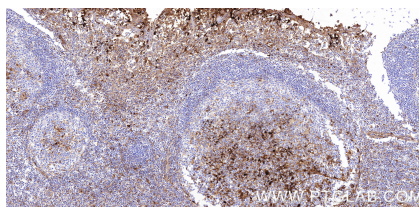
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 88164-1-RR (S100A1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Methanol) fixed A375 cells using S100A1 antibody (88164-1-RR, Clone: 252961A11) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).