

For Research Use Only

S100A1 Recombinant monoclonal antibody, PBS Only

Catalog Number: 88164-1-PBS



Basic Information

Catalog Number: 88164-1-PBS	GenBank Accession Number: BC014392	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 6271	CloneNo.: 252961A11
Source: Rabbit	UNIPROT ID: P23297	
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, Indirect ELISA

Species Specificity:
human, mouse

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

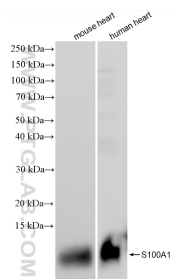
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

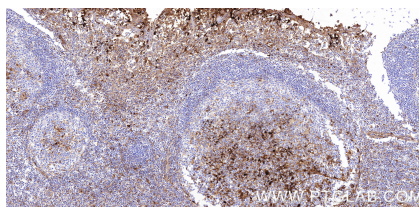
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

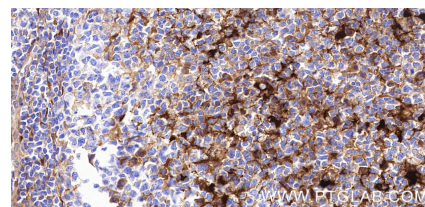
Selected Validation Data



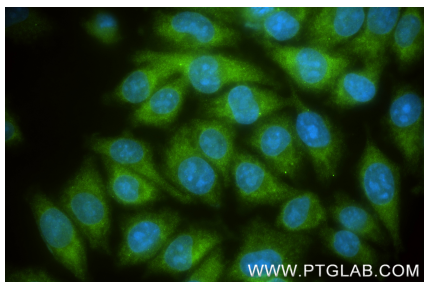
Various lysates were subjected to SDS PAGE followed by western blot with 88164-1-RR (S100A1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 88164-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 88164-1-RR (S100A1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 88164-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 88164-1-RR (S100A1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 88164-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 88164-1-PBS in a different storage buffer formulation.