



S100 Monoclonal Antibody (4C4.9)

Catalog Number MA5-12969

Product Data Sheet

Details		Species Reactivity	
Size	500µL	Tested species reactivity	Bovine, Human, Mouse, Rat
Host / Isotype	Mouse / IgG2a	Published Species Reactivity	Human, Mouse, Not Applicable, Non-human primate, Rat
Class	Monoclonal	Tested Applications	Dilution *
Type	Antibody	Immunocytochemistry (ICC)	1:10-1:100
Clone	4C4.9	Immunofluorescence (IF)	1:10-1:100
Immunogen	Purified bovine brain S100 protein	Immunohistochemistry (Paraffin) (IHC (P))	1-2 µg/ml
Conjugate	Unconjugated	Western Blot (WB)	1:100-1:1000
Form	Liquid	Published Applications	
Concentration	0.2mg/ml	Immunohistochemistry (IHC)	See 47 publications below
Purification	Protein A	Miscellaneous (Misc)	See 3 publications below
Storage Buffer	PBS, pH 7.4, with 0.2% BSA	Immunohistochemistry (Paraffin) (IHC (P))	See 2 publications below
Contains	0.09% sodium azide	Western Blot (WB)	See 1 publications below
Storage Conditions	4° C		

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product Specific Information

MA5-12969 targets S100 Protein in IHC (P), ICC/IF and WB applications and shows reactivity with Bovine, Human, mouse, and Rat samples.

The MA5-12969 immunogen is purified bovine brain S100 protein.

Background/Target Information

S100 belongs to the family of calcium binding proteins such as calmodulin and troponin C. S100A is composed of an alpha and beta chain whereas S100B is composed of two beta chains. S100 protein is also expressed in the antigen presenting cells such as the Langerhans cells in skin and interdigitating reticulum cells in the paracortex of lymph nodes.

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