



S100 Monoclonal Antibody (2A10)

Product Specifications	
Catalog Number:	905-061
Host:	Mouse
Isotype:	IgG ₁
Species Reactivity:	Reacts to β chain of cow and human S-100 protein
Applications: <i>The optimal dilution for a specific application must be determined by the investigator</i>	IHC: 1:200 <i>This antibody can be stained in formalin fixed paraffin embedded tissues by Immunohistochemical techniques such as Avidin Biotin Complex (ABC) Method.</i>
Concentration:	See product label
Format:	Lyophilized in PBS, pH 7.4, 1% BSA, 0.05% sodium azide; reconstitute with 0.5 mL distilled water
Storage: <i>Shipping conditions may differ from the recommended storage temperature</i>	Store lyophilized at 4°C; store reconstituted at -20°C
Immunogen:	Bovine brain S100 protein from mouse-mouse hybridoma
Related Products:	
908-288	S100A4 Recombinant Protein
908-273	S100 β Recombinant Protein

Background:

The sixteen S100 proteins show very divergent patterns of cell and tissue specific expression, subcellular localizations and relocations, post-translational modifications, and affinities for Ca²⁺, Zn²⁺, and Cu²⁺, consistent with their pleiotropic intracellular and extracellular functions. Up to 40 target proteins interact with S100 proteins, with 15 specifically identified as target proteins for S100A1 alone. Not surprisingly, researchers propose many functional roles for S100 proteins, and believe that altered S100 expression may play a role in such human disorders as cancer, neurodegenerative diseases, cardiomyopathies, inflammation, diabetes, and allergies.