

S-100 a Polyclonal Antibody

Catalog No: YT4197

Reactivity: Human; Mouse; Rat

Applications: WB;IHC;IF;ELISA

Target: S-100 α

Gene Name: S100A1

Protein Name: Protein S100-A1

P23297

P56565

Human Gene Id: 6271

Human Swiss Prot

No:

Mouse Gene ld: 20193

Mouse Swiss Prot

No:

Rat Gene Id: 295214

Rat Swiss Prot No: P35467

Immunogen: The antiserum was produced against synthesized peptide derived from human

S100 A1. AA range:10-59

Specificity: S-100 a Polyclonal Antibody detects endogenous levels of S-100 a protein.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not

yet tested in other applications.

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 10kD

Background: S100 calcium binding protein A1(S100A1) Homo sapiens The protein encoded

by this gene 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 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. [provided by RefSeq, Jul 2008],

Function: function: Weakly binds calcium but binds zinc very tightly-distinct binding sites

with different affinities exist for both ions on each monomer. Physiological concentrations of potassium ion antagonize the binding of both divalent cations, especially affecting high-affinity calcium-binding sites.,similarity:Belongs to the S-100 family.,similarity:Contains 2 EF-hand domains.,subunit:Dimer of either two

alpha chains, or two beta chains, or one alpha and one beta chain.,tissue specificity:Highly prevalent in heart. Also found in lesser quantities in skeletal

muscle and brain.,

Subcellular Location:

Expression:

Cytoplasm . Sarcoplasmic reticulum . Mitochondrion .

Highly prevalent in heart (PubMed:12804600, PubMed:1384693). Also found in

lesser quantities in skeletal muscle and brain (PubMed:1384693).

Tag: hot

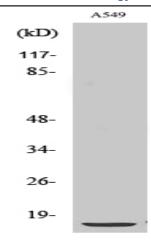
Sort : 14676

No4: 1

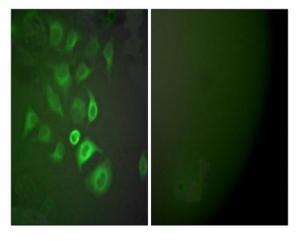
Host: Rabbit

Modifications: Unmodified

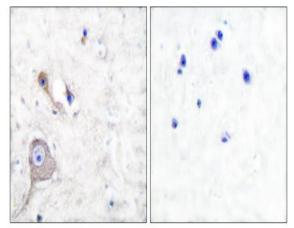
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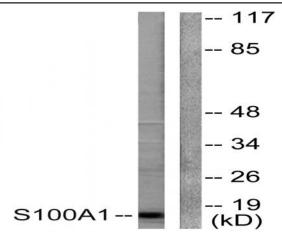
Western Blot analysis of various cells using S-100 α Polyclonal Antibody



Immunofluorescence analysis of A549 cells, using S100 A1 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using S100 A1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from A549 cells, using S100 A1 Antibody. The lane on the right is blocked with the synthesized peptide.