S100 Polyclonal Antibody

E20-53475

Catalog Number:E20-53475

Product name:S100 Polyclonal Antibody

Amount:100ul

Applications:IHC-p,wb

Reactivity:Human,Rat,Mouse

Gene Name:S100A1

Protein Name: Protein S100-A1 (S-100 protein alpha chain) (S-100 protein subunit alpha) (S100 calcium-binding protein A1)

Human Gene Id:6271

Human Swiss Prot No:P23297

Mouse Swiss Prot No:P56565

Rat Swiss Prot No:P35467

Immunogen: Recombinant Protein of S100

Specificity: The antibody detects endogenous S100 protein

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

Source: Rabbit

Dilution: Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. 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:-20°C/1 year

Other Names: Protein S100-A1 (S-100 protein alpha chain) (S-100 protein subunit alpha) (S100 calcium-binding protein A1)

Observed Band (KD):15

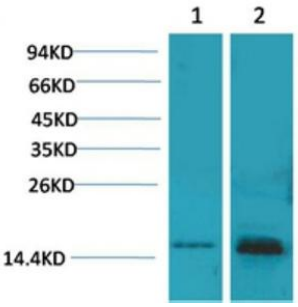
Background:S100 calcium binding protein A1(S100A1) Homo sapiens The protein encoded by this gene

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].

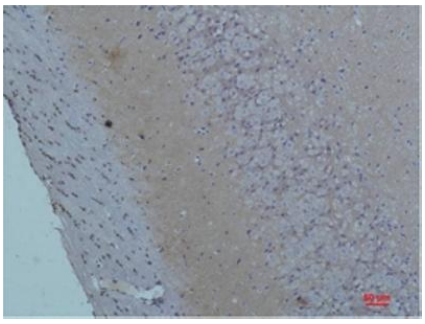
Function:function:Weakly binds calcium but binds zinc very tightly-distinct binding sites with different affinities exist for both ions on each monomer. Physiological concentrations of potassium ion antagonize the binding of both divalent cations, especially affecting high-affinity calcium-binding sites.,similarity:Belongs 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:nucleus,sarcoplasmic reticulum,Z disc,M band,neuron projection,protein complex.

Expression: Caudate nucleus,Heart,Skin.



Western blot analysis of 1) 293T, 2) Mouse Brain Tissue with S100 Rabbit pAb diluted at 1:2,000.



Immunohistochemical analysis of paraffin-embedded Rat Brain Tissue using S100 Rabbit pAb diluted at 1:200.