



S100 (ABT93R) Rabbit mAb (Ready to Use)

Catalog No	YP-rAb-18280
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	IHC
Gene Name	S100B
Protein Name	S100
Purification Process	Protein A
Specificity	This antibody detects endogenous levels of S100
Formulation	The prediluted ready-to-use antibody is diluted in phosphate buffer saline containing stabilizing protein and 0.05% Proclin 300
Source	Monoclonal, Rabbit,IgG
Dilution	Ready to use for IHC Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	2° C to 8° C/1 year,Ship by ice bag
Synonyms	Protein S100-B ; S-100 protein beta chain ; S-100 protein subunit beta ; S100 calcium-binding protein B ; S100B
Observed Band	
Calculated Molecular Weight	
Cell Pathway	Nuclear, Cytoplasmic
Tissue Specificity	Although predominant among the water-soluble brain proteins, S100 is also found in a variety of other tissues.
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. Binds to and initiates the activation of STK38 by releasing autoinhibitory intramolecular interactions within the kinase.,miscellaneous:In addition to metal-ion binding, this protein is involved with the regulation of protein phosphorylation in brain tissue.,similarity:Belongs to the S-101 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. The S100B dimer binds two molecules of STK38 (By similarity). The S100B dimer interacts with two molecules of CAPZA1.,tissue specificity:Although predominant among

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the water-soluble brain proteins, S100 is also found in a variety of other tissues.,

Background

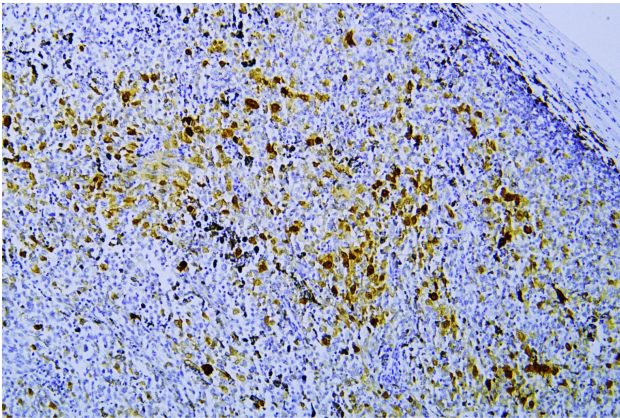
The protein encoded by this gene is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21; however, this gene is located at 21q22.3. This protein may function in Neurite extension, proliferation of melanoma cells, stimulation of Ca²⁺ fluxes, inhibition of PKC-mediated phosphorylation, astrocytosis and axonal proliferation, and inhibition of microtubule assembly. Chromosomal rearrangements and altered expression of this gene have been implicated in several neurological, neoplastic, and other types of diseases, including Alzheimer's disease, Down's syndrome, epilepsy

matters needing attention

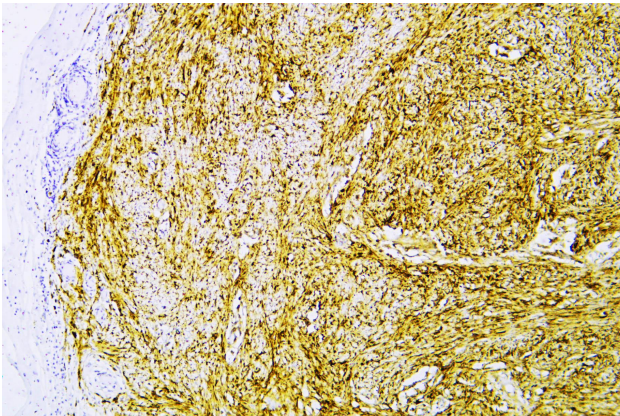
Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Human malignant melanoma was stained with anti-S100 (ABT93R) rabbit mAb



Human schwannoma was stained with anti-S100 (ABT93R) rabbit mAb

