10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

S100B/S-100 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP14936C

Specification

S100B/S-100 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	P04271
Other Accession	P04631, Q6YNR6, P50114, P02638, NP_006263.1
Reactivity	**Human**
Predicted	**Bovine, Mouse, Rabbit, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit Ig**
Calculated MW	**10713**
Antigen Region	**28-56**

S100B/S-100 Antibody (Center) - Additional Information

Gene ID 6285

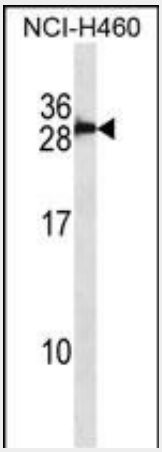
Other Names
Protein S100-B, S-100 protein beta chain, S-100 protein subunit beta, S100 calcium-binding protein B, S100B

Target/Specificity
This S100B/S-100 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 28-56 amino acids from the Central region of human S100B/S-100.

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C



S100B/S-100 Antibody (Center) (Cat. #AP14936c) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the S100B/S-100 antibody detected the S100B/S-100 protein (arrow).

S100B/S-100 Antibody (Center) - 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

in small aliquots to prevent freeze-thaw cycles.

Precautions
S100B/S-100 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

S100B/S-100 Antibody (Center) - Protein Information

Name S100B

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. Interaction with AGER after myocardial infarction may play a role in myocyte apoptosis by activating ERK1/2 and p53/TP53 signaling. Could assist ATAD3A cytoplasmic processing, preventing aggregation and favoring mitochondrial localization. May mediate calcium-dependent regulation on many physiological processes by interacting with other proteins, such as TPR-containing proteins, and modulating their activity.

Cellular Location
Cytoplasm. Nucleus

Tissue Location
Although predominant among the water-soluble brain proteins, S100 is also found in a variety of other tissues

S100B/S-100 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation

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,
amyotrophic lateral sclerosis, melanoma, and type I diabetes.

S100B/S-100 Antibody (Center) - References

Sahoo, N., et al. FEBS Lett. 584(18):3896-3900(2010)
Lin, J., et al. J. Biol. Chem. 285(35):27487-27498(2010)
van Dieck, J., et al. FEBS Lett. 584(15):3269-3274(2010)
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Boutsikou, T., et al. Mediators Inflamm. 2010, 790605 (2010) :

- Flow Cytomety
- Cell Culture