

**AP53778PU-N****Polyclonal Antibody to S100B (Center) - Aff - Purified**

<b>Alternate names:</b>	Astrocyte Marker, Protein S100-B, S-100 protein beta chain, S-100 protein subunit beta, S100 beta, S100 calcium-binding protein B
<b>Quantity:</b>	0.4 ml
<b>Concentration:</b>	lot specific
<b>Background:</b>	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 Ca <sup>2+</sup> 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, amyotrophic lateral sclerosis, melanoma, and type I diabetes.
<b>Uniprot ID:</b>	<a href="#">P04271</a>
<b>NCBI:</b>	<a href="#">NP_006263</a>
<b>GenID:</b>	<a href="#">6285</a>
<b>Host / Isotype:</b>	Rabbit / Ig
<b>Immunogen:</b>	KLH conjugated synthetic peptide from human S100B/S-100; central epitope <b>Genename:</b> S100B <b>AA Sequence:</b> aa 28-56
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction <b>Purification:</b> Protein A column followed by peptide affinity purification <b>Buffer System:</b> PBS with 0.09% (W/V) Sodium Azide as preservative
<b>Applications:</b>	<b>Western blotting:</b> 1/1000. <b>Immunohistochemistry on Paraffin sections:</b> according to customer's information, the antibody works on Formalin-Fixed Paraffin-Embedded human brain tissue (10 µg/ml). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	Recognizes human S100B (center). Other species not tested.
<b>Add. Information:</b>	<b>Molecular Weight:</b> 10713 Da

**Storage:** Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.  
Avoid repeated freezing and thawing.  
Shelf life: one year from despatch.

**General Readings:**

1. Sahoo, N., et al. FEBS Lett. 584(18):3896-3900(2010).
2. Lin, J., et al. J. Biol. Chem. 285(35):27487-27498(2010).
3. van Dieck, J., et al. FEBS Lett. 584(15):3269-3274(2010).
4. Egberts, F., et al. Anticancer Res. 30(5):1799-1805(2010).
5. Boutsikou, T., et al. Mediators Inflamm. 2010, 790605 (2010).

**Pictures:** Western blot analysis in NCI-H460 cell line lysates (35 ug/lane) using S100B Antibody (Center) Cat.-No AP53778PU-N. This demonstrates the S100B/S-100 antibody detected the S100B/S-100 protein (arrow).

