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Anti-Human S100 Beta Polyclonal Antibody

CL7799AP
CL7799AP-S
Lot: 189921

DESCRIPTION:

S100 calcium-binding protein Beta (S100 Beta; S100B) is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and nucleus of a wide range of cells and are involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation.

S100B is glial-specific and is expressed primarily by astrocytes and 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 the S100B 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.

PRESENTATION:

100 µg (**CL7799AP**) or 20 µg (**CL7799AP-S**) purified IgG (1 mg/ml) buffered in PBS and 0.02% NaN₃. (Purified from serum via Affinity Chromatography). For maximum recovery of contents, spin down tube before use.

STORAGE/STABILITY:

Store at + 4°C. For long term storage, aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

SPECIFICATION:

Immunogen: 15 amino acid synthetic peptide located in human S100 beta.

Specificity: This antibody is specific for human S100 beta.

IgG Class: Rabbit IgG

Application: This antibody is suitable for use in Western Blot (0.01 – 0.03 µg/mL) and Immunohistochemistry with paraffin embedded sections (4 µg/mL). This antibody has not been tested in other applications.

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TEST RESULTS:

Western Blot:



CL7799AP (0.01 $\mu\text{g/ml}$) staining of a human brain (cerebellum) lysate (35 μg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

N.B. Appropriate control samples should always be included in any labeling studies.

* For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.

REFERENCES:

1. Wang DD, Bordey A (2008). The astrocyte odyssey. Prog. Neurobiol. 86 (4): 342–67.

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