

SP2091P**Polyclonal Antibody to S100A1 (S100A/B) - Purified**

Alternate names:	S-100 protein alpha chain, S-100 protein subunit alpha, S100 alpha, S100 calcium-binding protein A1, S100-A1, S100A
Quantity:	1 ml
Background:	Among tumours of the human central and peripheral nervous systems, schwannomas, ependymomas and astroglomas of different stages, including glioblastomas show positive reactions. S100 can be detected in almost all benign naevi and malignant melanocytic tumours of the skin, and in Langerhans cells in the skin.
Uniprot ID:	P02639
NCBI:	NP_001092512
GeneID:	104968698
Host:	Rabbit
Immunogen:	Bovine brain S-100
Format:	State: Liquid IgG fraction Purification: Ammonium Sulphate Precipitation Buffer System: PBS, pH 7.4 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer.
Applications:	Immunohistochemistry on Frozen Sections: 1/10-1/40. Immunohistochemistry on Paraffin Sections: 1/10-1/40. This product does not require protein digestion pretreatment of paraffin sections. This product does not require antigen retrieval using heat treatment prior to staining of paraffin sections. Recommended Positive Control: Brain, skin or Human melanoma. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody reacts with S-100 A and S-100 B. This protein is present in brain glial cells and in ependymal cells. This antibody also stains Schwann cells of the peripheral nervous system. Species: Bovine, Human, Mouse and Rat. Other species not tested.
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. Moore BW. A soluble protein characteristic of the nervous system. Biochem Biophys Res Commun. 1965 Jun 9;19(6):739-44. PubMed PMID: 4953930. 2. Kindblom LG, Lodding P, Rosengren L, Baudier J, Haglid K. S-100 protein in melanocytic tumors. An immunohistochemical investigation of benign and malignant melanocytic tumors and metastases of malignant melanoma and a characterization of the antigen in comparison to human brain. Acta Pathol Microbiol Immunol Scand A.

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3. Lauriola L, Michetti F, Sentinelli S, Cocchia D. Detection of S-100 labelled cells in nasopharyngeal carcinoma. J Clin Pathol. 1984 Nov;37(11):1235-8. PubMed PMID: 6389603.

4. Lam TT, Kwong JM, Tso MO. Early glial responses after acute elevated intraocular pressure in rats. Invest Ophthalmol Vis Sci. 2003 Feb;44(2):638-45. PubMed PMID: 12556393.

Pictures:

Figure 1. SP2091P: S100 antibody staining of Formalin Fixed, Paraffin processed Human melanoma tissue.

