

Mouse anti-Human S-100 Protein, clone 4C4.9 (Monoclonal)

Clone no. 4C4.9

MONOSAN

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Product name	Mouse anti-Human S-100 Protein, clone 4C4.9 (Monoclonal)
Host	Mouse
Applications	IHC-P (1:50-1:200)
Species reactivity	human
Conjugate	-
Immunogen	Unknown or proprietary to MONOSAN and/or its suppliers
Isotype	IgG2a
Clonality	Monoclonal
Clone number	4C4.9
Size	1 ml
Concentration	n/a
Format	-
Storage buffer	Tris Buffer, pH 7.3-7.7, containing 1% BSA and <0.1% Sodium Azide
Storage until expiry date	2-8°C

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES

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**Additional info**

S-100 protein has been found in normal melanocytes, Langerhans cells, histiocytes, chondrocytes, lipocytes, skeletal and cardiac muscle, Schwann cells, epithelial and myoepithelial cells of the breast, salivary and sweat glands, as well as in glial cells.<sup>1,2,6</sup> Neoplasms derived from these cells also express S-100 protein, albeit non-uniformly.<sup>1-4</sup> A large number of well differentiated tumors of the salivary gland, adipose and cartilaginous tissue,<sup>3</sup> and Schwann cell-derived tumors express S-100 protein. Almost all malignant melanomas and cases of histiocytosis X are positive for S-100 protein.<sup>4,5</sup> Despite the fact that S-100 protein is an ubiquitous substance, its demonstration is of great value in the identification of several neoplasms, particularly melanomas.

**References**

1. Nakajima T, et al. *Ad J Surg Path.* 1982; 6:715-727
2. Kuhn HJ, et al. *Am J Clin Path.* 1983; 79:341-347
3. Yaziji H, et al. *Int J Surg Pathol.* 2003; 11:11-5
4. Patel P, et al. *J Am Acad Dermatol.* 2002; 46:264-70
5. Morrison CD, et al. *Semin Diagn Pathol.* 2000; 17:204-15

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