

s-100 Antibody

Datasheet

For Research Use Only

Description	Catalog No.	Size
s-100 Concentrate	FP-A068-01	0.1 ml
s-100 Concentrate	FP-A068-05	1 ml
s-100 Predilute	FP-A068-70	7 ml
s-100 Predilute	FP-A068-250	25 ml

Description

S-100 is a low-molecular weight protein found in Schwann cells, melanocytes, glial cells, histiocytes, lipocytes, skeletal and cardiac muscle, chondrocytes, adipocytes, myoepithelial cells, macrophages, Langerhans cells, dendritic cells, and keratinocytes. S-100 is a useful marker for Schwann cell-derived tumours and a number of well-differentiated tumours of the salivary gland, adipose and cartilaginous tissue. Anti-S-100 is used to detect melanomas, histiocytosis X, malignant peripheral nerve sheath tumours, and clear cell sarcomas.

Specifications

Clone	IHC100
Source	Mouse Monoclonal
Applications	IHC (P)
Formulation	Tris Buffer, pH 7.3 - 7.7, with 1% BSA and <0.1% Sodium Azide

IHC Procedure*

Positive Control Tissue	Melanoma
Concetrated Dilution	1:50 – 1:200
Pretreatment	Perform heat-induced epitope retrieval (HIER) at pH 9 for 10 to 30 minutes
Incubation Time and Temp	10 to 30 minutes at room temperature
Detection	Refer to the detection system manual

*Result should confirmed by an established diagnostic procedure.

Result

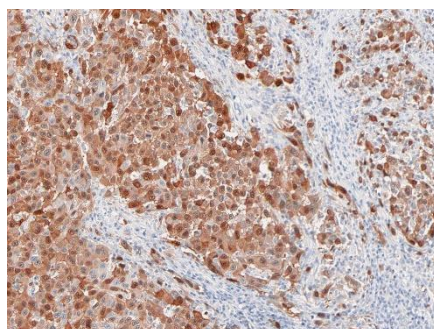


Figure. s-100 on Melanoma

Storage and Handling

Must store the reagent at 2-8 °C. Do not freeze. Do not use the reagent after expiration date on vial. To ensure proper stability and delivery of the antibody after each run, replace the cap and immediately place the bottle in a refrigerator in an upright position. Positive and negative controls should be simultaneously run with unknown specimens, as there are no conclusive characteristics to suggest instability of the antibody.

Precautions

The product is for research use only. Do not use for diagnosis purpose. Ensure proper handling procedures are used with all reagents. Always wear laboratory coats, disposable gloves, and other appropriate laboratory equipment when handling reagents. Do not ingest reagents, and avoid contact with eyes and mucous membranes. Wash eyes with copious amounts of water if contact occurs.

References

1. **Nakajima T**, et al. "An immunoperoxidase study of S-100 protein distribution in normal and neoplastic tissues." *Am J Surg Pathol*. 1982 Dec;6(8):715-27.
2. **Kahn HJ**, et al. "Role of antibody to S100 protein in diagnostic pathology." *Am J Clin Pathol*. 1983 Mar;79(3):341-7.
3. **Monda L**, et al. "S-100 protein immunostaining in the differential diagnosis of chondroblastoma." *Hum Pathol*. 1985 Mar;16(3):287-93.
4. **Yaziji H**, et al. "Immunohistochemical markers of melanocytic tumors." *Int J Surg Pathol*. 2003 Jan;11(1):11-5.
5. **Patel P**, et al. "Myxoid melanoma: immunohistochemical studies and a review of the literature." *J Am Acad Dermatol*. 2002 Feb;46(2):264-70.
6. **Morrison CD**, et al. "Immunohistochemistry in the diagnosis of neoplasms of the central nervous system." *Semin Diagn Pathol*. 2000 Aug;17(3):204-15.
7. **McLaren KM**, et al. "The immunohistochemical localization of S100 in the diagnosis of papillary carcinoma of the thyroid." *Hum Pathol*. 1996 Jul;27(7):633-6.

Technical Support

Contact FemtoPath Technical Support at +886232338585 or email to femtopath@hongjing.com.tw for questions regarding this product.