

## S-100

### Instructions for Use

**Specification:**

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. Neoplasms derived from these cells also express S-100 protein, albeit non-uniformly. A large number of well differentiated tumors of the salivary gland, adipose and cartilaginous tissue, and Schwann cell derived tumors express S-100 protein. Almost all malignant melanomas and cases of histiocytosis x are positive for S-100 protein. 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. The antibody reacts with human and cow S-100 protein A and B. In the brain it labels glial and ependymal cells. Melanocytes and Langerhans cells of the skin also stain positive.

**Availability:**

Catalog No.	Contents	Volume
ILP2025-C01	S-100	0,1 ml concentrate
ILP2025-C05	S-100	0,5 ml concentrate
ILP2025-C1	S-100	1,0 ml concentrate

**Intended use:** For Research Use Only

**Reactivity:** Cow, Human

**Clone:** -

**Species of origin:** Rabbit

**Isotype:** IgG

**Control Tissue:** Melanoma

**Staining:** Cytoplasmic

**Immunogen:** Affinity purified S-100 protein isolated from cow brain

**Presentation:** Purified immunoglobulin fraction of rabbit antiserum against S100 containing sodium azide as a preservative

**Application and suggested dilutions:**

Pre-treatment: Proteolytic treatment is required for IHC staining on formalin-fixed, paraffin embedded tissue sections.

- Immunohistochemical staining of formalin-fixed, paraffin embedded tissue section (dilution up to 1:50-1:200)

The optimal dilution for a specific application should be determined by the investigator.

**Note:** Dilution of the antibody in 10% normal goat serum followed by a goat anti-rabbit secondary antibody-based detection is recommended.

**Storage & Stability:** Store at 2-8 °C. Do not use after expiration date printed on the vial.

**References:**

- 1) Moore et al. Biochem Biophys Res Comm 19: 739, 1966
- 2) Kindblom et al. Acta Path Microbiol Immunol Scand Sect A 92: 219, 1984
- 3) Winek et al. Am J Surg Pathol 13: 251, 1989