



S-100

Catalog # 10139.05 or .10 (0.5 ml or 1.0 ml concentrated)

Catalog # 10139.50 (5 ml ready to use)

INTENDED USE

- **In Vitro:** This product is intended for qualitative immunohistochemistry with normal and neoplastic, formalin-fixed, paraffin embedded tissue sections, to be viewed by light microscopy. This antibody was tested both with manual application and the most popular automated immunostainers.
- **Description:** S-100 belongs to the family of calcium binding proteins. It is expressed in melanocytes, Langerhans cells, histiocytes, chondrocytes, lipocytes, skeletal and cardiac muscle, Schwann cells, epithelial and myoepithelial cells of the breast, salivary and sweat glands, and in glial cells. Neoplasms derived from these cells also express S-100 protein, albeit nonuniformly. Many well differentiated tumors of the salivary gland, adipose and cartilaginous tissue, and Schwann cell derived tumors express S-100. Almost all malignant melanomas and of histiocytosis x are positive. Demonstration of S-100 is of great value in the identification of several neoplasms, particularly melanomas.
- **Expected Staining Pattern:** Cytoplasmic
- **Positive Control:** Melanoma

MATERIALS PROVIDED

- **S-100 specific mouse monoclonal antibody:** #10139, tissue culture supernatant, concentrated, with 0.09% sodium azide.
- **Host:** Mouse
- **Epitope:** Not determined.
- **Species Reactivity:** Human, mouse, rat, cow.
- **Clone:** 4C4.9
- **Ig Isotype / Light Chain:** IgG2a / Kappa
- **Immunogen:** Purified bovine brain S100 protein
- **Sterility:** This product is not sterile.

MATERIALS REQUIRED, BUT NOT PROVIDED

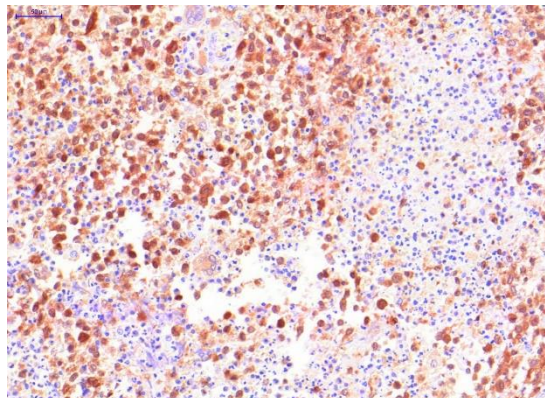
- Detection system
- Chromogen/substrate system

METHODS AND PROCEDURES

- **Tissue Section Pretreatment:** Staining of formalin-fixed tissue sections requires treating in boiling 10mM citrate buffer, pH 6.0 for 10-20 minutes.
- **Recommended Pretreatment:** HISTOLS®-Citrate Buffer (cat#30010) HISTOLS®-Peroxidase Blocking Solution (cat# 30013) HISTOLS®-BBPS (Background Blocking Protein Solution) (cat# 30012)
- **Dilution of Concentrated Antibody:** 1:200 in antibody diluent (for informational purposes only), exact dilution must be determined by user.
- **Primary Antibody Incubation Time:** 60 minutes at RT.
- **Recommended Detection System:** HISTOLS®-MR (anti- mouse & rabbit Ig) (cat# 30011)
- **Visualization:** To detect antibody binding sites, follow the instructions provided with the chromogen/substrate system.

STORAGE AND STABILITY

This product contains sodium azide and is stable when stored at 2-8°C. Do not use after expiration date indicated on label of the product. If reagent is not stored as recommended, performance must be validated by the user.



S-100, Histiocytosis x

For Research Use Only

