

## S100 Protein Ab-1

Catalog # MS-296-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 200ug/ml)

Catalog # MS-296-R7 (7.0ml)

Catalog # MS-296-RQ (12.0ml)

Catalog # MS-296-PCS

Please note this data sheet has been changed effective June 7, 2011

### INTENDED USE:

- **For In Vitro Diagnostic Use:** This product is intended for qualitative immunohistochemistry with normal and neoplastic formalin-fixed, paraffin-embedded tissue sections, to be viewed by light microscopy.
- **Description:** S100 belongs to the family of calcium binding proteins such as calmodulin and troponin C. S100A is composed of an alpha and beta chain whereas S100B is composed of two beta chains. S100 protein is also expressed in the antigen presenting cells such as the Langerhans cells in skin and interdigitating reticulum cells in the paracortex of lymph nodes.
- **Expected Staining Pattern:** Cytoplasmic
- **Positive Control:** Melanoma or Schwannoma

### MATERIALS PROVIDED:

#### S100 Protein Ab-1 (refer to catalog number):

- #MS-296-P (or -P0, -P1): 200ug/ml of antibody purified from ascites. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide.  
or
- #MS-296-R7: (7.0ml) of antibody prediluted in 0.05mol/L Tris-HCl, pH 7.6 containing stabilizing protein and 0.015mol/L sodium azide.  
or
- #MS-2109-RQ: (12.0ml) of antibody prediluted in 0.025mol/L Tris-HCl, pH 7.4 ±0.1 containing stabilizing protein and 0.015mol/L sodium azide.  
or
- #MS-296-PCS: 5 positive control slides.
- **Antibody Concentration:** 200ug/ml
- **Host:** Mouse
- **Mol. Wt. of Antigen:** ~22kDa (non-reduced); ~11kDa (reduced)
- **Epitope:** Not determined
- **Species Reactivity:** Human, Cow, Rat, and Mouse. Others-not known.
- **Clone Designation:** 4C4.9
- **Ig Isotype / Light Chain:** IgG2a
- **Immunogen:** Purified bovine brain S100 protein
- **Microbiological State:** This product is not sterile.

### MATERIALS REQUIRED, BUT NOT PROVIDED:

- **Antibody Diluent:** For concentrated antibodies, the antibody must be diluted before using. Use Lab Vision Antibody Diluent (catalog # TA-125-UD). Refer to diluent product instructions for use.
- **Negative Control Reagent:** Refer to the "General Protocol" instructions.
- **Visualization System:** Refer to the "General Protocol" instructions.

### METHODS AND PROCEDURES:

Using UltraVision LP detecton systems	
<b>Specimen Preparation</b>	Refer to the "General Protocol" instructions.
<b>Dilution of Concentrated Antibody</b>	1:100-1:200 in antibody diluent
<b>Tissue Section Pretreatment</b>	No special pretreatment is required for immuno-histochemical staining of formalin-fixed tissues.
<b>Primary Antibody Incubation Time</b>	20 minutes at Room Temperature
<b>Visualization</b>	To detect antibody, follow the instructions provided with the visualization system.

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<b>Specimen Preparation</b>	Refer to the "General Protocol" instructions.
<b>Dilution of Concentrated Antibody</b>	1:100 in antibody diluent
<b>Tissue Section Pretreatment</b>	No special pretreatment is required for immuno-histochemical staining of formalin-fixed tissues.
<b>Primary Antibody Incubation Time</b>	20 minutes at Room Temperature using UltraVision Quanto systems
<b>Visualization</b>	To detect antibody, follow the instructions provided with the visualization system.

**STORAGE and STABILITY:**

This product contains sodium azide and is stable for 24 months 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.

**REFERENCES:**

- 1) Joshi MG; et al. Modern Pathology, 1996 Jan, 9(1):57-62.
- 2) McLaren KM; et al. Human Pathology, 1996 Jul, 27(7):633-6.