

## Monoclonal Antibody to S-100 Protein

### *Technical Data Sheet*

#### Reagent Category

Monoclonal primary antibody to S-100 protein

#### Antibody Formats Supplied

- 7 ml of anti S-100, Ready-To-Use
- 0.5 ml of anti S-100, Concentrate

ITEM#: IMI29661E (Ready-To-Use)

ITEM#: IMI29652E (Concentrate)

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**SOURCE:** Mouse ascites

**IMMUNOGLOBULIN ISOTYPE:** IgG2a, Kappa

**IMMUNOGEN:** Purified bovine S-100 Protein

**Clone:** 15E2E2

#### **REACTIVITY**

This antibody recognizes intact alpha and Beta subunits of S-100 protein, a relatively small protein with a molecular weight of 20-25 kd found in a variety of mammalian species such as human, bovine and murine as characterized by immunodiffusion and immunoprecipitation assays.

This S-100 monoclonal antibody reacts with cells of normal tissues as well as cells of tumor tissues. In normal tissues S-100 protein is present in a variety of cells such as in glial cells of the central nervous system. In tumor tissues, this antibody reacts with melanocytic tumors of both benign and malignant origin, however, the degree and intensity of staining differs in benign and malignant melanocytic cells, virtually all-benign melanocytic tumors stain positive for S-100. This antibody also reacts with astrocytomas, Oligodendrogliomas, ependymomas, choroid plexus neoplasms and schwannomas. The staining pattern of S-100 antibody is mostly cytoplasmic, however, nuclear staining may sometimes be present.

**POSITIVE CONTROL TISSUE:** Melanoma tissue

#### **Antibody FORMAT, DILUTION and INCUBATION**

This affinity purified monoclonal S-100 antibody is provided in phosphate buffered saline pH 7.4 containing bovine serum albumin (BSA) and 0.1% sodium azide.

- 7ml pre-diluted, Ready- to- Use:** Incubate for 10 minutes when staining with Innovex staining system. When used with other staining system, incubate for 30 minutes.
- 0.5ml Concentrate:** For 30 minute incubation, dilute 1:40 to 1:50; The provided dilution range are mere guidelines, the incubation time and the working titer should be determined by the end user.

*The above dilutions and incubation times were derived by the use of Innovex STAT-Q and HISTO-STAT (2-step) detection systems. For less sensitive detection systems these dilution factors may vary and they should be determined by the end user for specific detection system employed.*

## APPLICATIONS

This antibody is intended for use in staining S-100 protein in routinely fixed paraffin embedded or frozen histological sections for the purpose of qualitative localization of S-100 antigens. This antibody can also be used for quantitative flow cytometric assays in the indirect method.

## SPECIES REACTIVITY

This antibody is reactive with human tissue; other species reactivity may be characterized by the end user.

## STORAGE CONDITIONS

Store in refrigerator at 2-8°C if product will be used routinely. For long term storage, aliquote in small and practical volumes and freeze at -20 to -70°C. Avoid multiple freeze-thaw cycles which can greatly reduce antibody performance and stability.

## IMPORTANT NOTE:

The interpretation of test results is the sole responsibility of the end user.

***FOR IN VITRO RESEARCH USE ONLY***

**FOR ADDITIONAL TECHNICAL SUPPORT:**



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