

Localization – Cytoplasm/ Nuclear

Host Species – Mouse

Ig Class – IgG2a

Intended Use

This antibody is designed for the specific localization of S100 Beta in formalin-fixed, paraffin-embedded (FFPE) tissue sections.

Storage & Handling

Store RTU Vial at 2-8°C. Fresh dilutions for concentrated antibodies, if required, should be prepared prior to use and are stable for up to one day at room temperature (20-26°C).

Working Principle

IHC is a two-step process wherein the primary antibody binds to the antigen of interest and that binding is detected by a chromogen. The primary antibody may be used in IHC using manual techniques or any Automated Staining System. Positive and negative controls should always be run simultaneously with all patient specimens.

Product Description

S100B protein is part of the S100 family of proteins, which are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100B is a calcium binding peptide. S100B has been implicated in having many functions including neurite expansion, proliferation of melanoma cells, inhibition of protein kinase c-mediated phosphorylation, astrocytosis, axonal proliferation, inhibition of microtubule assembly and stimulation of Calcium ion fluxes.

S100B is also associated with neurodegenerative diseases like Alzheimer's disease or other chronic neurological diseases. Apart from glial cell expression, S100B is also expressed in melanocytes, and can be used as a diagnostic tool for malignant melanoma.

Material Supplied

S100 Beta antibody is affinity purified and diluted in PBS, pH 7.4, containing 1% BSA and 0.09% sodium azide.

Material required But Not Supplied

- Xylene
- DI Water
- Control Tissues
- Isopropyl alcohol
- Antigen retrieval buffers
- Hematoxylin
- Positive charged slides
- Blocking Reagents
- Mounting media
- Wash Buffer
- Detection System
- Cover glass

Working Reagent Procedure

- Ready-to-Use antibodies have been optimized for use with the recommended protocols and should not require further dilution.
- Concentrated antibodies must be diluted in accordance with the recommended protocol.

Recommended Protocol

Refer the following table for the details on specific recommended protocol for this antibody.

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|------------------------|---|---------------------------------|--|
| Control Tissue | Human Melanoma Tissue | Antibody Incubation Time | 30-60 Minutes at RT |
| Dilution factor | 1:20-50 (Antibody Diluent: DH144) | Retrieval Pre-treatment | Tris-EDTA based HIER (AR9 Buffer: DH020) |

Precautions

This product should be used by qualified and trained professional users only.

Avoid microbial contamination of reagents to minimize non-specific staining. Never pipette reagents by mouth. Avoid contact of reagents and specimens with skin. If reagents or specimens come into contact with sensitive area, wash with sufficient amounts of water. Dispose of the unused reagents. This kit contains sodium azide at concentrations of less than 0.1%. Sodium azide is not classified as a hazardous chemical at these concentrations, but proper handling protocols should be observed. For more information on product hazards, precautions and waste disposal, *Material Safety Data Sheets* are available upon request.

Limitations

Improper tissue handling and processing prior to immunostaining can lead to inconsistent results. Variations in embedding and fixation or the nature of the tissue may lead to variations in results. Endogenous peroxidase activity or pseudo peroxidase activity in erythrocytes and tissue biotin may result in non-specific staining based on the detection system employed. Tissues containing Hepatitis B Surface Antigen (HBsAg) may give false positive with horseradish peroxidase systems. Improper counterstaining and mounting may compromise the interpretation of results. Interpretation of the staining result is solely the responsibility of the user. Experimental results should be confirmed by a medically-established diagnostic product or procedure. Evaluation must be performed by a qualified pathologist.

Troubleshooting

For Technical Support contact us at +91 - 7506501122 or info@dygnova.com or your local distributor to report unusual staining.

Doc No: DH/DS/S100230Rev.00

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| | Manufacturer Details | | Use by Date | LOT | Lot/Batch Number |
| | Manufacturing Date | | Consult Instructions for Use | REF | Catalogue Number |
| | Temperature Limits | | Sufficient for 'n' assays / tests | IVD | In-vitro Diagnostic Medical Device |