Product datasheet

Anti-S100 antibody [4C4.9] ab4066

Overview

Product name: Anti-S100 antibody [4C4.9]
Description: Mouse monoclonal [4C4.9] to S100
Host species: Mouse
Tested applications: Suitable for: IHC-P
Species reactivity: Reacts with: Mouse, Rat, Cow, Human
Immunogen: Full length protein. Purified bovine brain S-100 protein
Positive control: Melanoma.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer: Preservative: 0.05% Sodium azide
Constituents: Ascites, 1% BSA
Purity: Protein G purified
Clonality: Monoclonal
Clone number: 4C4.9
Isotype: IgG2a

Applications

Our Abpromise guarantee covers the use of ab4066 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHC-P</td>
<td>★★★☆☆☆</td>
<td>1/10 - 1/50. Antigen retrieval is not essential but may optimise staining.</td>
</tr>
</tbody>
</table>

Target
**Function**

Weakly binds calcium but binds zinc very tightly: distinct binding sites with different affinities exist for both ions on each monomer. Physiological concentrations of potassium ion antagonize the binding of both divalent cations, especially affecting high-affinity calcium-binding sites.

**Tissue specificity**

Highly prevalent in heart. Also found in lesser quantities in skeletal muscle and brain.

**Sequence similarities**

Belongs to the S-100 family.
Contains 2 EF-hand domains.

**Cellular localization**

Cytoplasm.

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**Images**

- ab4066 staining human melanoma by IHC-P.

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**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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