Product datasheet

Anti-Oligodendrocyte Specific Protein antibody - Oligodendrocyte Marker ab7474

Overview

Product name
Anti-Oligodendrocyte Specific Protein antibody - Oligodendrocyte Marker

Description
Rabbit polyclonal to Oligodendrocyte Specific Protein - Oligodendrocyte Marker

Host species
Rabbit

Specificity
Reacts specifically with 22 kDa protein derived from CNS samples.

Tested applications
Suitable for: IHC-P, IHC-Fr

Species reactivity
Reacts with: Mouse, Rat

Predicted to work with: Human

Immunogen
A 15 residue synthetic C-terminal peptide.

General notes
The concentration depends on the batch, please enquire for current stock concentration.

Reproducibility is key to advancing scientific discovery and accelerating scientists’ next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.
Form: Liquid

Storage instructions: Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

Storage buffer: Constituent: Whole serum

Purity: Whole antiserum

Clonality: Polyclonal

Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab7474 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>1/50 - 1/500.</td>
</tr>
<tr>
<td>IHC-Fr</td>
<td>🌟🌟🌟🌟🌟</td>
<td>Use at an assay dependent concentration.</td>
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Target

Function: Plays a major role in tight junction-specific obliteration of the intercellular space, through calcium-independent cell-adhesion activity.

Sequence similarities: Belongs to the claudin family.


Images

Immunohistochemical analysis of adult mouse testis tissue, staining Oligodendrocyte Specific Protein (red) with ab7474.

Tissue was blocked with 5% BSA for 1 hour at 25°C. Samples were incubated with primary antibody (1/100 in 1% BSA) for 1 hour at 25°C. A TRITC-conjugated donkey anti-rabbit polyclonal IgG (1/200) was used as the secondary antibody.

Immunohistochemistry (Frozen sections) - Anti-Oligodendrocyte Specific Protein antibody - Oligodendrocyte Marker (ab7474)

This image is courtesy of an Abreview submitted by Dr Qin Wen
Immunofluorescent staining for OSP obtained with OSP antibody (ab7474) in rat brain cortex. The picture shows oligodendrocyte immunostaining in the cingular cortex. Picture taken with X20 objective, cells stained are ~30microns in diameter. Animals were intracardially perfused with 4% PFA. Tissue was post-fixed overnight in the same fixative, cryoprotected in 20% sucrose and frozen in OCT. Protocol: free floating IHC on 30um cryostat sections. Primary antibody ab7474 was used at 1/100 and incubated overnight at RT. Secondary antibody, Alexa fluor 488 at 1/1000, incubated for 2h at RT.

IHC image of ab7474 staining in human hippocampus formalin fixed paraffin embedded tissue section, performed on a Leica BondTM system using the standard protocol F. The section was pretreated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab7474, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

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

Our Abpromise to you: Quality guaranteed and expert technical support

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- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

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