**Product datasheet**

**Anti-Oligodendrocyte Specific Protein antibody - Oligodendrocyte Marker ab7474**

★★★★☆ 3 Abreviews  9 References  3 Images

### 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, WB, IHC-FoFr

**Species reactivity**  
Reacts with: Mouse, Rat

**Immunogen**  
A 15 residue synthetic C-terminal peptide.

**Positive control**  
WB: rat CNS and mouse brain and testis

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

### Properties

**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.
**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.

**Cellular localization**
Cell junction > tight junction. Cell membrane.

---

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

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.

---

### Target

<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>
</tr>
<tr>
<td>WB</td>
<td></td>
<td>1/200 - 1/5000. Detects a band of approximately 22 kDa (predicted molecular weight: 22 kDa). Block in Tris-buffered saline (TBS) containing 1% BSA overnight at 4C. Possible oligomerisation or polimerisation of the protein have been reported and can lead to high MW bands.</td>
</tr>
<tr>
<td>IHC-FoFr</td>
<td></td>
<td>1/100.</td>
</tr>
</tbody>
</table>
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Oligodendrocyte Specific Protein antibody - Oligodendrocyte Marker (ab7474)

IHC image of ab7474 staining in human hippocampus formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ 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.

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

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.

Please note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- 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](https://www.abcam.com/abpromise) or contact our technical team.
Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors