

Product datasheet

Anti-Oligodendrocyte Specific Protein antibody - Oligodendrocyte Marker ab7474

★★★★☆ [3 Abreviews](#) [14 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
Species reactivity	Reacts with: Rat, Human
Immunogen	A 15 residue synthetic C-terminal peptide.
General notes	<p>The concentration depends on the batch, please enquire for current stock concentration.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>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, along with publications, customer reviews and Q&As</p>

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

The Abpromise guarantee

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.

Application	Abreviews	Notes
IHC-P	★ ★ ☆ ☆ ☆ (2)	1/50 - 1/500.
IHC-Fr	★ ★ ★ ★ ★ (1)	Use at an assay dependent concentration.

Target

Function

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

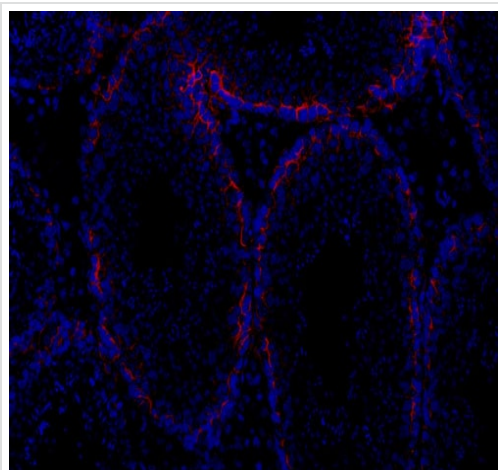
Sequence similarities

Belongs to the claudin family.

Cellular localization

Cell junction > tight junction. Cell membrane.

Images

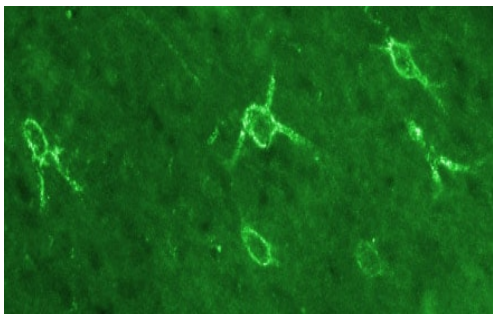


Immunohistochemical analysis of adult mouse testis tissue, staining Oligodendrocyte Specific Protein (red) with ab7474.

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.

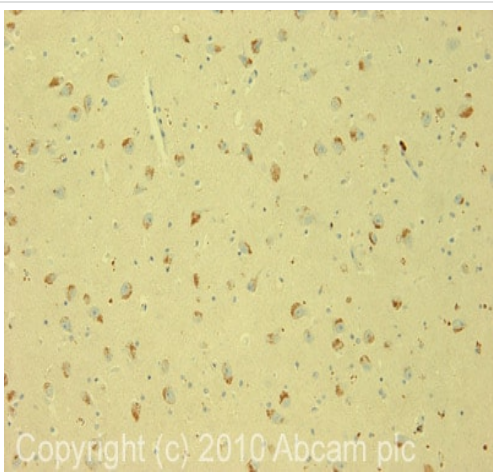
Immunohistochemistry (Frozen sections) - Anti-Oligodendrocyte Specific Protein antibody - Oligodendrocyte Marker (ab7474)

This image is courtesy of an Abreview submitted by Dr Qin Wen



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.



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 pre-treated 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"

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