

## Product datasheet

# Microglia Marker (CD11b, CD45, Iba1, TMEM119) Antibody Sampler Panel ab226482

Recombinant

[3 References](#) [5 Images](#)

### Overview

**Product name** Microglia Marker (CD11b, CD45, Iba1, TMEM119) Antibody Sampler Panel

**Product overview** Microglia Marker (CD11b, CD45, Iba1, TMEM119) Antibody Sampler Panel (ab226482) contains antibodies against the key microglia markers, CD11b, CD45, Iba1, and TMEM119.

Microglia are the macrophages of the brain and spinal cord and act as an immune defense in the central nervous system (CNS).

The rabbit monoclonal antibodies in this panel were selected for their exceptional performance in IHC, alongside other applications. Please see the individual datasheets for additional information.

Please note that Anti-TMEM119 antibody [28-3] is for mouse reactivity only.

**Notes** [Explore our range of antibody sample panels](#) designed to provide you with a variety of trial-size antibodies in a convenient and cost-effective format.

[Carrier-free formulations](#) of our recombinant antibodies are available and ready to use for multiplex IHC analysis including Imaging Mass Cytometry™. Please refer to the 'Associated products' section below.

### Properties

**Storage instructions** Store at -20°C. Please refer to protocols.

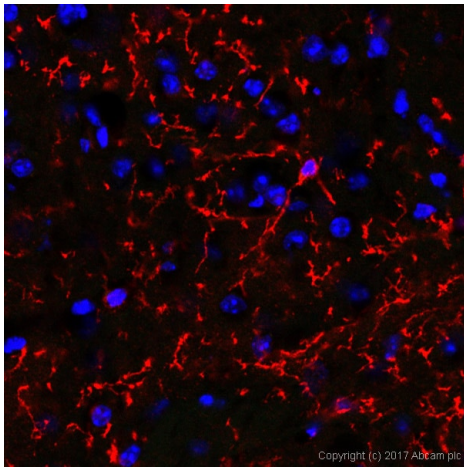
Components	1 packs
<a href="#">ab133357 - Anti-CD11b antibody [EPR1344]</a>	1 x 10µl
<a href="#">ab40763 - Anti-CD45 antibody [EP322Y]</a>	1 x 10µl
<a href="#">ab178846 - Anti-Iba1 antibody [EPR16588]</a>	1 x 10µl
<a href="#">ab209064 - Anti-TMEM119 antibody [28-3]</a>	1 x 10µl

Components	1 packs
<b><u>ab205718 - Goat Anti-Rabbit IgG H+L (HRP)</u></b>	1 x 100µg

**Cellular localization**

CD11b: Membrane. CD45: Membrane. Membrane raft. Colocalized with DPP4 in membrane rafts. Iba1: Cytoplasm > cytoskeleton. Cell projection > ruffle membrane. Associated with the actin cytoskeleton at membrane ruffles and at sites of phagocytosis. TMEM119: Membrane; Single-pass type I membrane protein

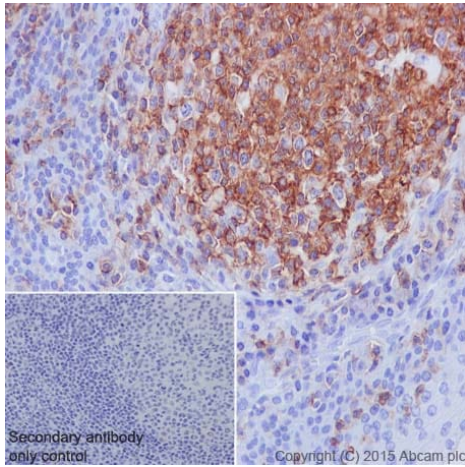
**Images**



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TMEM119 antibody [28-3] - Microglial marker ( **ab209064** )

IHC image of TMEM119 staining in a section of frozen normal mouse brain. No antigen retrieval step was performed prior to staining. Non-specific protein-protein interactions were then blocked in PBS containing 0.5% (v/v) Triton X-100, 0.3 M (w/v) glycine and 1% (w/v) BSA for 1 h at room temperature. The section was then incubated overnight at +4°C in PBS containing 0.5% (v/v) Triton X-100 and 1% (w/v) BSA with **ab209064** at 0.5 µg/ml. The secondary antibody was **ab150087** (shown in red) used at 2 µg/ml for 1 hour at room temperature. Nuclear DNA was labelled with DAPI (shown in blue). The section was then mounted using Fluoromount®. The image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

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



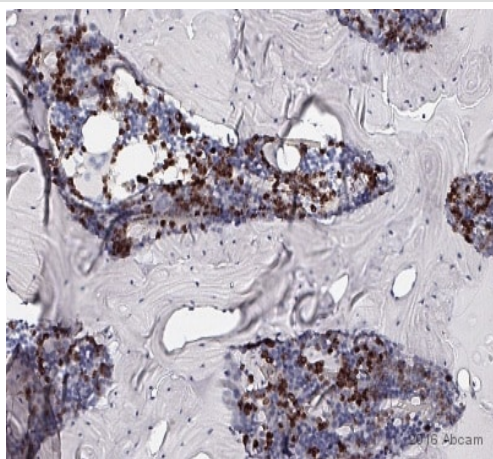
Immunohistochemical staining of paraffin embedded human tonsil with purified **ab40763** at a working dilution of 1/250. The secondary antibody used is HRP goat anti-rabbit IgG H&L (**ab97051**) at 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD45 antibody [EP322Y]

(

**ab40763**

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Formaldehyde-fixed, paraffin-embedded rat bone marrow tissue stained for CD11b using **ab133357** at 1/5000 in immunohistochemical analysis.

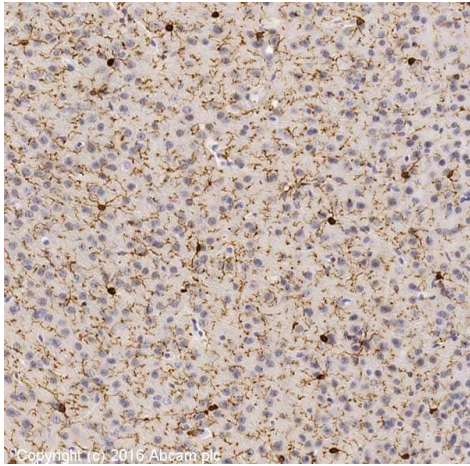
Heat mediated antigen retrieval with EDTA buffer pH 9 was performed before commencing with staining protocol. 1% casein was used as blocking agent.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD11b antibody

[EPR1344] (

**ab133357**

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IHC image of Iba1 staining in mouse normal brain formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol B. 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 **ab178846**, 1/2000 dilution, for 15 mins at room temperature. A goat anti-rabbit biotinylated secondary antibody was used to detect the primary, and visualized using an HRP conjugated ABC system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Iba1 antibody

[EPR16588] (

**ab178846**

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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.

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Microglia Marker (CD11b, CD45, Iba1, TMEM119)

Antibody Sampler Panel (ab226482)

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

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- We investigate all quality concerns to ensure our products perform to the highest standards

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