

## Product datasheet

# Conformation-Specific Amyloid beta Antibody Sampler Panel ab218719

Recombinant

11 Images

### Overview

**Product name** Conformation-Specific Amyloid beta Antibody Sampler Panel

**Product overview** Amyloid beta (A $\beta$ ) plaques exhibit diverse conformations resulting in structural variants with distinct pathologies. Conformation-specific A $\beta$  antibody sampler panel (ab218719), includes recombinant rabbit monoclonal antibodies against fibrils of A $\beta$  1-42 that can distinguish conformation variation in amyloid structures. It also contains a goat anti-rabbit (HRP) secondary antibody.

The antibodies in this panel have been validated using both Dot blot and immunohistochemistry staining on paraffin-embedded human and mouse model samples.

**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.

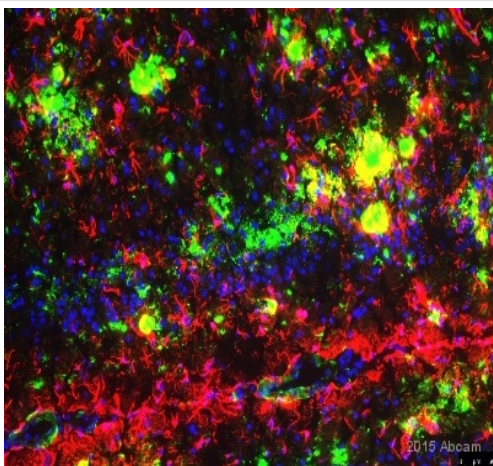
Components	1 packs
<a href="#">ab205342 - Anti-Amyloid Fibril antibody [mOC116] - Conformation-Specific</a>	1 x 10 $\mu$ l
<a href="#">ab205339 - Anti-Amyloid Fibril antibody [mOC22] - Conformation-Specific</a>	1 x 10 $\mu$ l
<a href="#">ab205341 - Anti-Amyloid Fibril antibody [mOC78] - Conformation-Specific</a>	1 x 10 $\mu$ l
<a href="#">ab201062 - Anti-Amyloid Fibril antibody [mOC87] - Conformation-Specific</a>	1 x 10 $\mu$ l
<a href="#">ab205340 - Anti-beta Amyloid 1-42 antibody [mOC23] - Conformation-Specific</a>	1 x 10 $\mu$ l

Components	1 packs
<b><u>ab201059 - Anti-Vascular Amyloid 1-42 [mOC31] - Conformation-Specific</u></b>	1 x 10µl
<b><u>ab201060 - Anti-beta Amyloid 1-42 antibody [mOC64] - Conformation-Specific</u></b>	1 x 10µl
<b><u>ab201061 - Anti-beta Amyloid 1-42 antibody [mOC98] - Conformation-Specific</u></b>	1 x 10µl
<b><u>ab205718 - Goat Anti-Rabbit IgG H+L (HRP)</u></b>	1 x 100µg

### Cellular localization

beta Amyloid: Membrane. Membrane > clathrin-coated pit. Cell surface protein that rapidly becomes internalized via clathrin-coated pits. During maturation, the immature APP (N-glycosylated in the endoplasmic reticulum) moves to the Golgi complex where complete maturation occurs (O-glycosylated and sulfated). After alpha-secretase cleavage, soluble APP is released into the extracellular space and the C-terminal is internalized to endosomes and lysosomes. Some APP accumulates in secretory transport vesicles leaving the late Golgi compartment and returns to the cell surface. Gamma-CTF(59) peptide is located to both the cytoplasm and nuclei of neurons. It can be translocated to the nucleus through association with APBB1 (Fe65). Beta-APP42 associates with FRPL1 at the cell surface and the complex is then rapidly internalized. APP sorts to the basolateral surface in epithelial cells. During neuronal differentiation, the Thr-743 phosphorylated form is located mainly in growth cones, moderately in neurites and sparingly in the cell body. Casein kinase phosphorylation can occur either at the cell surface or within a post-Golgi compartment. Amyloid Fibril: Membrane.

### Images



Immunohistochemical analysis of 4% PFA in 0.1M PBS perfusion-fixed murine APP-PS1 transgenic brain tissue sections, labelling beta amyloid with **ab201062** at a dilution of 1/200 incubated for 24 hours at 4°C in 0.1 M PBST with 10% donkey serum.

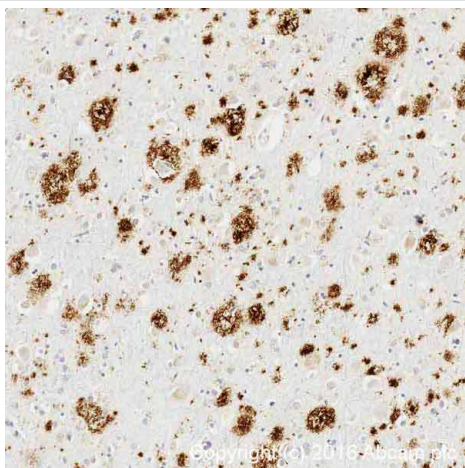
Permeabilization was 0.1M PBS with 3% Triton X. Secondary was a polyclonal rabbit Alexa Fluor® 488 at 1/100. Counterstaining was DAPI against nuclear DNA and astrocytes stained with GFAP-Cy3.

**See Abreview**

Immunohistochemistry (PFA perfusion fixed frozen sections) - Anti-Amyloid Fibril antibody [mOC87] - Conformation-Specific (

**ab201062**

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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Amyloid Fibril antibody [mOC116] - Conformation-Specific (

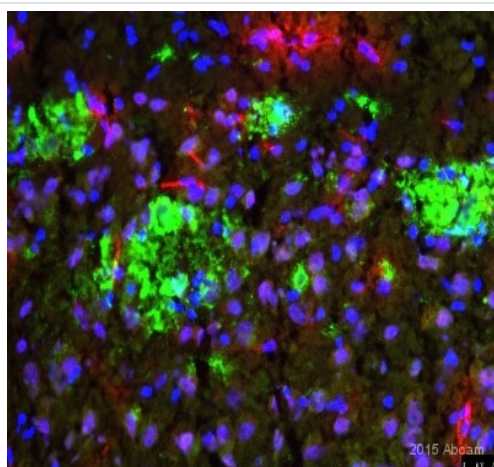
[ab205342](#)

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IHC image Amyloid Fibrillin staining in Human Brain Alzheimer 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 [ab205342](#), 0.1 µg/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.

\*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre



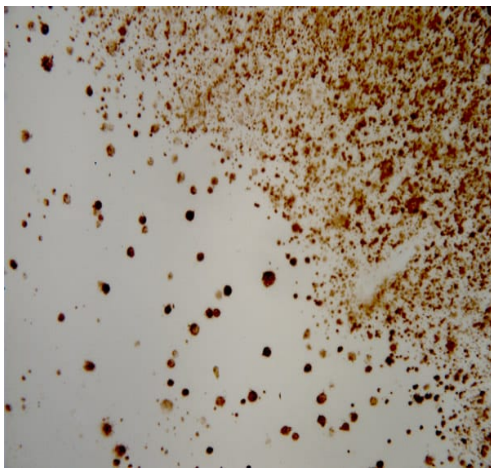
Immunohistochemistry (PFA perfusion fixed frozen sections) - Anti-beta Amyloid 1-42 antibody [mOC98] - Conformation-Specific (

[ab201061](#)

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Immunohistochemical analysis of 4% PFA in 0.1M PBS perfused frozen murine APP-PS1 transgenic brain tissue, labelling beta amyloid with [ab201061](#) at a dilution of 1/200 incubated for 24 hours at 4°C in 0.1 M PBST with 10% donkey serum. Permeabilization 0.1 M with 3% Triton X. Blocking was with 10% serum at 24°C for 1 hour. The secondary used was a Rabbit polyclonal Alexa Fluor® 488 conjugate at 1/1000. Counterstain was DAPI against nuclear DNA. The antibody labelled amyloid plaques and colocalised with neuronal marker NeuN (red) only in unaffected neurons.

**See Abreview**

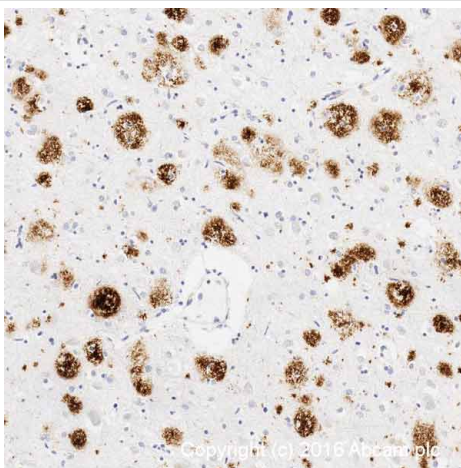


Immunohistochemistry - Free Floating - Anti-Amyloid Fibril antibody [mOC87] - Conformation-Specific (

[ab201062](#)

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Immunohistochemical staining of human brain tissue from a patient with a diagnosis of Alzheimers disease, male, 81 years, 5 hour post mortem index, tangle stage 5, plaque stage B, mini mental status exam score 12. Sections were cut using a vibratome. No antigen retrieval was performed. Free floating sections were stained using [ab201062](#) at a dilution of 50 ng/mL. The secondary antibody used was a biotinylated goat anti-rabbit at a dilution of 1/225, which was blocked with normal goat serum. The sample was visualized using ABC solution (1 hour incubation) followed by 1-4 minutes of DAB. The sample was mounted and allowed to dry overnight, followed by dehydration in increasingly concentrated ethanol solutions.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Amyloid Fibril antibody [mOC78] - Conformation-Specific (

[ab205341](#)

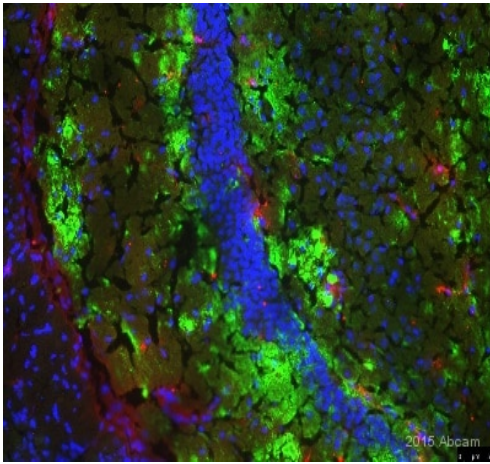
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IHC image of Amyloid Fibrillin staining in Human Brain Alzheimer formalin fixed paraffin embedded tissue section\*, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with [ab205341](#), 1µg/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.

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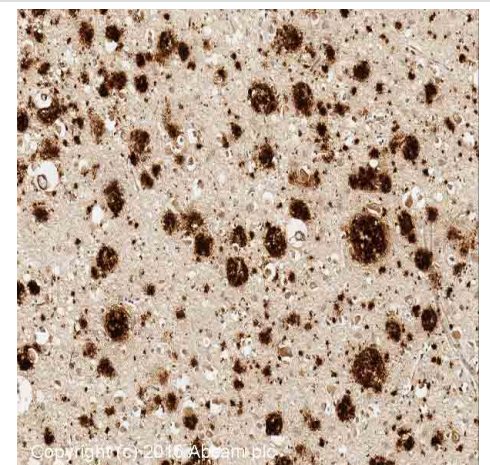


Immunohistochemistry (PFA perfusion fixed frozen sections) - Anti-beta Amyloid 1-42 antibody [mOC64] - Conformation-Specific ( **ab201060** )

Immunohistochemical analysis of 4% PFA in 0.1M PBS perfusion fixed murine APP-PS1 transgenic brain tissue sections, labelling beta amyloid with **ab201060** at a dilution of 1/200 incubated for 24 hours at 4°C in 0.1 PBST with 10% donkey serum.

Permeabilization was with 0.1 M PBS with 3% Triton X. Blocking with 10% serum for 1 hour at 24°C. Rabbit anti-mouse polyclonal Alexa Fluor® 488 undiluted. Counterstaining was with DAPI against nuclear DNA and an ApoE counterstain in red.

**See Abreview**

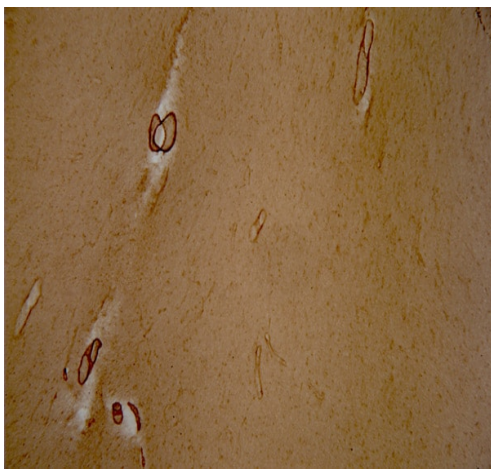


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-beta Amyloid 1-42 antibody [mOC64] - Conformation-Specific ( **ab201060** )

IHC image of beta Amyloid staining in Human Brain Alzheimer 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 **ab201060**, 1µg/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.

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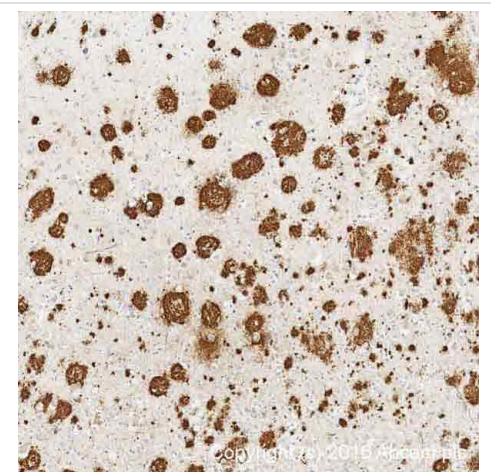


Immunohistochemistry - Free Floating - Anti-beta Amyloid 1-42 antibody [mOC31] - Conformation-Specific (

[ab201059](#)

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Immunohistochemical staining of human brain tissue from a patient with a diagnosis of Alzheimers disease, male, 81 years, 5 hour post mortem index, tangle stage 5, plaque stage B, mini mental status exam score 12. Sections were cut using a vibratome. No antigen retrieval was performed. Free floating sections were stained using [ab201059](#) at a dilution of 50 ng/mL. The secondary antibody used was a biotinylated goat anti-rabbit at a dilution of 1/225, which was blocked with normal goat serum. The sample was visualized using ABC solution (1 hour incubation) followed by 1-4 minutes of DAB. The sample was mounted and allowed to dry overnight, followed by dehydration in increasingly concentrated ethanol solutions.



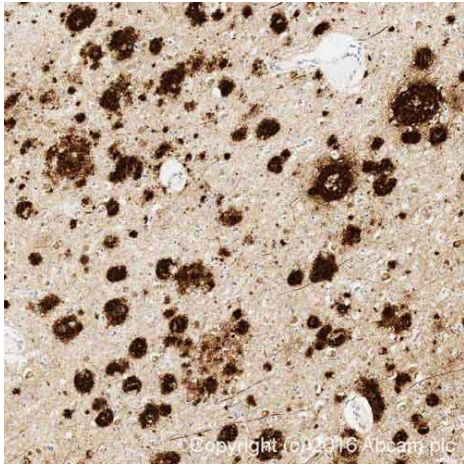
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-beta Amyloid 1-42 antibody [mOC23] - Conformation-Specific (

[ab205340](#)

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IHC image of beta Amyloid staining in Human Brain Alzheimer 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 [ab205340](#), 0.1µg/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.

\*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Amyloid Fibril antibody [mOC22] - Conformation-Specific (   
**ab205339** )

IHC image of Amyloid Fibril staining in Human Brain Alzheimer 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 **ab205339**, 0.1µg/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.

\*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre

### Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

Conformation-Specific Amyloid beta Antibody  
 Sampler Panel (ab218719)

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

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