

Anti-Amyloid Fibril antibody [mOC78] - Conformation-Specific ab205341

リコンビナント **RabMAb**

4 References [画像数 4](#)

製品の概要

製品名	Anti-Amyloid Fibril antibody [mOC78] - Conformation-Specific
製品の詳細	Rabbit monoclonal [mOC78] to Amyloid Fibril - Conformation-Specific
由来種	Rabbit
アプリケーション	適用あり: Dot blot, IHC-P
種交差性	交差種: Human
免疫原	The details of the immunogen for this antibody are not available.
ポジティブ・コントロール	Dot Blot: beta Amyloid (A β) 1-40; beta Amyloid (A β) 1-42. IHC-P: FFPE Hu Brain Alzheimer.
特記事項	<p>This antibody was developed as part of a collaboration between Abcam and Professor Charles Glabe, UC Irvine.</p> <p>ab205341 (mOC78) recognizes a conformation-dependent and aggregation-specific discontinuous epitope of beta Amyloid that maps to segments 8-11 (SGYE), 18-24 (VFFAEDV) and 26-32 (SNKGAI) (Hatami et al 2014). It also recognizes a-synuclein and islet amyloid polypeptide (IAPP) fibrils but not monomers on dot blots. It recognizes a broad range of bands from monomer to high molecular weight with samples of Aβ40 and Aβ42 on western blots (Hatami et al 2014). Immunoreactivity on western blots is not changed by boiling the membrane. mOC78 stains plaques and a unique population of intraneuronal and intranuclear amyloid and also stains the center of nascent neuritic plaques where it colocalizes with neuronal chromatin (Pensalfani et al 2014).</p> <p>For further information on the immunogen, please refer to Hatami et al. 2014 and Kayed et al. 2007.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
バッファー	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	mOC78
アイソタイプ	IgG

アプリケーション

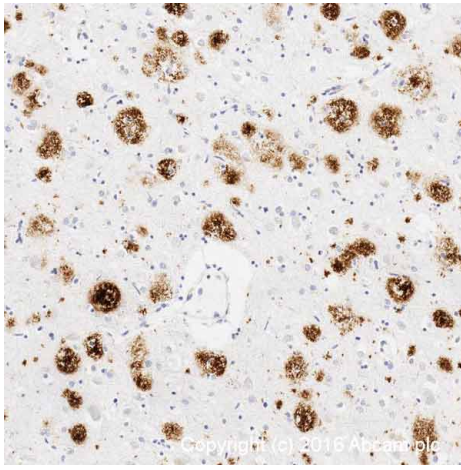
The Abpromise guarantee **Abpromise保証は、**次のテスト済みアプリケーションにおけるab205341の使用に適用されます
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アプリケーション	Abreviews	特記事項
Dot blot		1/6000.
IHC-P		Use a concentration of 0.5 - 1 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

ターゲット情報

細胞内局在 Membrane.

画像

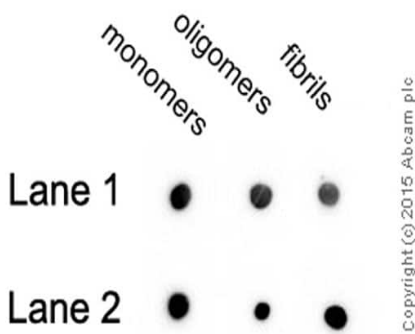


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Amyloid Fibril antibody [mOC78] - Conformation-Specific (ab205341)

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.

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



Dot Blot - Anti-Amyloid Fibril antibody [mOC78] - Conformation-Specific (ab205341)

Dot blot analysis of beta Amyloid labeled with ab205341 at 1/6000 dilution.

Lane 1: beta Amyloid (Aβ) 1-40;

Lane 2: beta Amyloid (Aβ) 1-42.

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated ([ab97051](#)) at 1/30000 was used as secondary antibody.

Blocking/Dilution buffer: 5% NFDm/TBST.

Exposure time: 30 seconds.

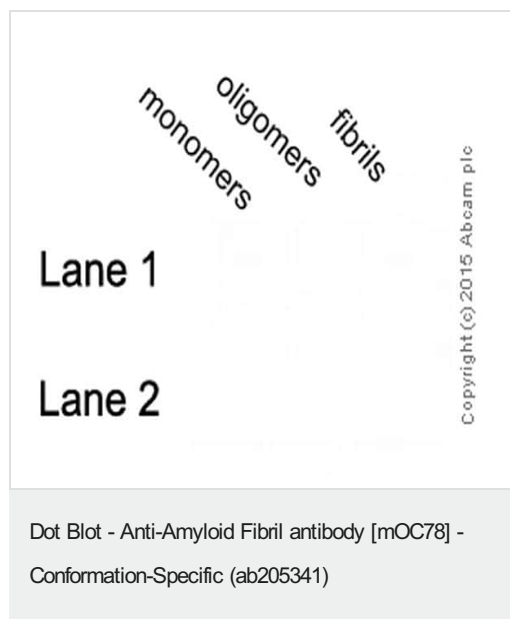
Note: Antibody reactivity was assessed using a dot blot, which is a non-quantitative method that maintains the native conformation of beta Amyloid. beta Amyloid 1-40 and 1-42 peptides underwent the following aggregation conditions before being spotted onto a nitrocellulose membrane and detected using ab205341:

Monomers: 0.3 mg of beta Amyloid peptide was dissolved in 30 µl 100 mM NaOH and incubated at room temperature for 10 minutes. It was then diluted with 970 µl of 1% SDS and boiled for five minutes.

Oligomers: 0.3 mg of beta Amyloid peptide was dissolved in 30 µl 100 mM NaOH and incubated at room temperature for 10 minutes. It was then diluted with 970 µl of 10 mM phosphate buffer pH 7.4 containing 0.02% sodium azide and incubated at room temperature for four days.

Fibrils: 0.3 mg of beta Amyloid peptide was dissolved in 1 ml 50% hexafluoroisopropanol (HFIP) with 0.02% sodium azide. It was then stirred constantly for nine days; the first seven with a cap on and the

final two with the cap removed to allow evaporation of the HFIP. Fibrils were then sedimented at 20,000 rpm in a microcentrifuge for 20 minutes and resuspended in 1 ml of PBS + 0.02% sodium azide.



Negative control (secondary ab only) Dot blot analysis of beta Amyloid.

Lane 1: beta Amyloid (A β) 1-40;

Lane 2: beta Amyloid (A β) 1-42.

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated ([ab97051](#)) at 1/30000 was used as secondary antibody.

Blocking/Dilution buffer: 5% NFDm/TBST.

Exposure time: 30 seconds.

Why choose a recombinant antibody?

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

Anti-Amyloid Fibril antibody [mOC78] - Conformation-Specific (ab205341)

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