

Anti-4 Hydroxynonenal antibody [HNEJ-2] ab48506

★★★★★ **10 Abreviews** **158 References** 画像数 4

製品の概要

製品名	Anti-4 Hydroxynonenal antibody [HNEJ-2]
製品の詳細	Mouse monoclonal [HNEJ-2] to 4 Hydroxynonenal
由来種	Mouse
アプリケーション	適用あり: WB, IHC-P, IHC-FoFr
種交差性	交差種: Species independent
免疫原	Chemical/ Small Molecule corresponding to 4 Hydroxynonenal conjugated to keyhole limpet haemocyanin.
ポジティブ・コントロール	Colorectal carcinoma cells.
特記事項	<p>This product was changed from ascites to tissue culture supernatant on 28th February 2018. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.</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>

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 or -80°C. Avoid freeze / thaw cycle.
バッファー	<p>pH: 7.40</p> <p>Constituents: 0.02% Potassium chloride, 0.02% Monobasic dihydrogen potassium phosphate, 0.0125% Sodium chloride, 0.115% Dibasic monohydrogen sodium phosphate</p>
精製度	Protein A purified
特記事項 (精製)	Purified from serum-free cell culture medium by ammonium sulfate purification followed by protein A purification.
ポリ/モノ	モノクローナル

クローン名HNEJ-2

アイソタイプIgG1

軽鎖の種類kappa

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ab48506の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

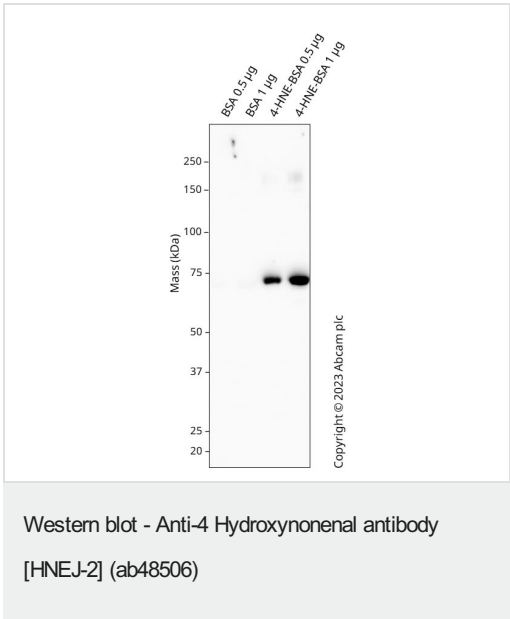
アプリケーション	Abreviews	特記事項
WB	★★★★★ (2)	1/1000.
IHC-P	★★★★★ (3)	1/25.
IHC-FoFr	★★★★★ (1)	1/25.

ターゲット情報

関連性Aldehydic products of lipid peroxidation, such as 4 hydroxynonenal (4 HNE), have been implicated in the etiology of pathological changes under oxidative stress as a key mediator of oxidative stress induced cell death. It is a stable product of lipid peroxidation, is proarrhythmic and may contribute to the cytotoxic effects of oxidative stress.

細胞内局在Cytoplasmic

画像



All lanes : Anti-4 Hydroxynonenal antibody [HNEJ-2] (ab48506) at 1/1000 dilution

- Lane 1 : BSA cell lysate at 0.5 µg
- Lane 2 : BSA cell lysate at 1 µg
- Lane 3 : 4-Hydroxynonenal (BSA) cell lysate at 0.5 µg
- Lane 4 : 4-Hydroxynonenal (BSA) cell lysate at 1 µg

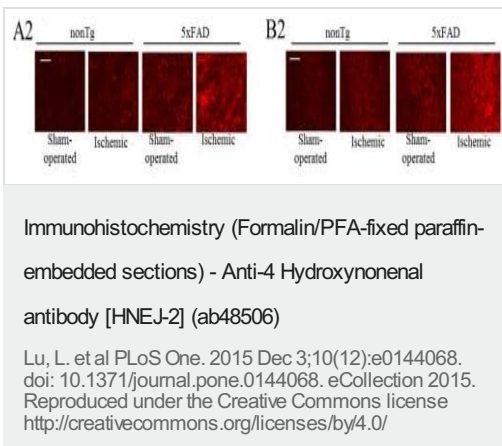
Developed using the ECL technique.

Performed under reducing conditions.

Observed band size: 66 kDa

Western blot: Anti-4-HNE antibody [HNEJ-2] (ab48506) staining at

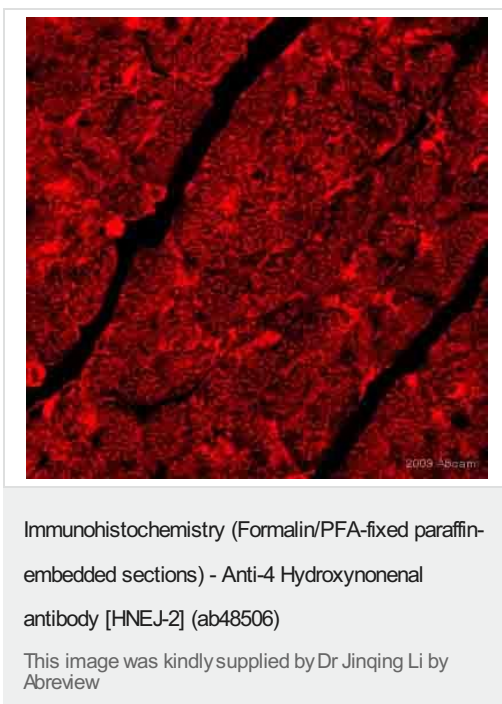
1/1000 dilution, shown in black. In Western blot, ab48506 was shown to bind specifically to 4-HNE. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3% milk in TBS-0.1% Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4°C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times before development with a high-sensitivity ECL substrate kit and imaged with 3 minutes exposure time. Secondary antibodies used were HRP conjugated Goat anti-Mouse (H+L) 5000 dilution.



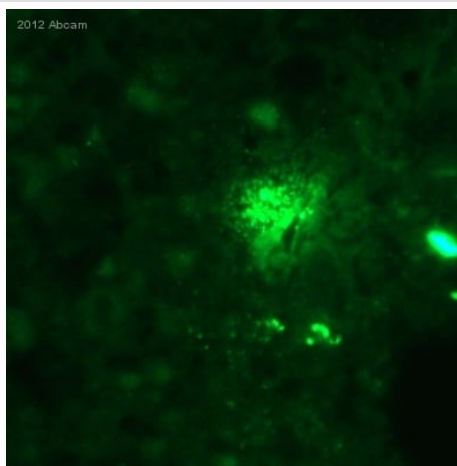
Elevated brain oxidative damage in ischemic 5xFAD mice

Formalin-fixed, paraffin-embedded mouse brain tissue (from non-transgenic or 5xFAD transgenic animals) stained for 4-Hydroxynonenal using ab48506 at in immunohistochemical analysis.

Scale bar = 20µm. (A2) and (B2) are representative images of 4-HNE staining (Red) in brain cortex and CA1 region, respectively.



ab48506 at a 1/25 dilution staining 4-Hydroxy-2-Nonenal in mouse heart tissue sections by Immunohistochemistry (paraffin embedded) incubated for 15 hours at +4°C. Fixed with formaldehyde, heat mediated antigen retrieval step performed using citrate buffer. Blocked using 5% serum for 20 minutes at 20°C. Secondary used undiluted polyclonal Goat anti-mouse IgG conjugated to Alexa Fluor 594.



Immunohistochemistry (PFA perfusion fixed frozen sections) - Anti-4 Hydroxynonenal antibody [HNEJ-2] (ab48506)

This image is courtesy of an Abreview submitted by Seontae Kim

ab15463 staining 4-Hydroxynonenal in the Mouse melanoma cancer tissue sections by IHC-FoFr (PFA perfusion fixed frozen Sections). Tissue samples were fixed with 4% Formalin, Antigen retrieval carried out heat mediation using an autoclave for 10 minutes, permeabilized using 0.1% SDS and blocked with 1% BSA for 15 minutes at 25°C. The sample was incubated with primary antibody (1/25 in PBS + 1% BSA) at 4°C for 12 hours. An Alexa Fluor®488-conjugated Goat anti-mouse IgG(H+L) monoclonal(1/100) was used as the secondary antibody.

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