

Product datasheet

Anti-4 Hydroxynonenal antibody ab46545

★★★★☆ 18 Abreviews 105 References 3 图像

概述

产品名称	Anti-4 Hydroxynonenal抗体
描述	兔多克隆抗体到 4 Hydroxynonenal
宿主	Rabbit
特异性	Specifically binds to HNE modified proteins.
经测试应用	适用于: IHC-Fr, WB, IHC-P, ELISA
种属反应性	与反应: Species independent
免疫原	HNE conjugated to BC.

性能

形式	Liquid
存放说明	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.
存储溶液	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: PBS, 0.0146% EDTA, 0.44% Sodium chloride, 50% Glycerol, 1.23% Sodium phosphate
纯化说明	This antibody was purified by an HNE modified Protein-Sepharose affinity column.
克隆	多克隆
同种型	IgG

应用

Our [Abpromise guarantee](#) covers the use of **ab46545** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
IHC-Fr	★★★★☆	Use at an assay dependent concentration. PubMed: 24140865

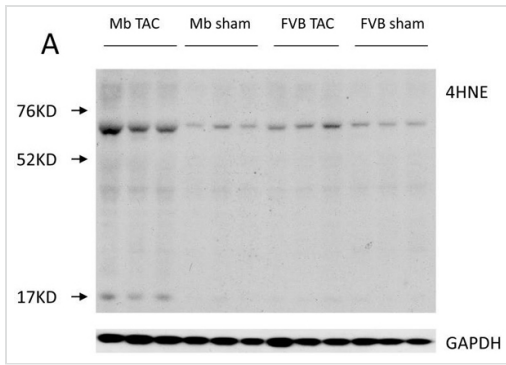
应用	Ab评论	说明
WB	★★★★☆	Use at an assay dependent concentration. Can be blocked with Hydroxynonenal modified Bovine Serum Albumin (ab194193) .
IHC-P	★★★★★	Use at an assay dependent concentration.
ELISA		1/4000 - 1/20000.

靶标

相关性 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.

细胞定位 Cytoplasmic

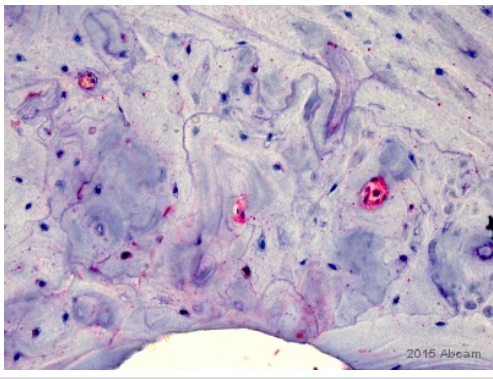
图片



Western blot - Anti-4 Hydroxynonenal antibody (ab46545)

Image from Wang J et al., PLoS One. 2013;8(1):e53951. Fig 7(A).; doi: 10.1371/journal.pone.0053951.

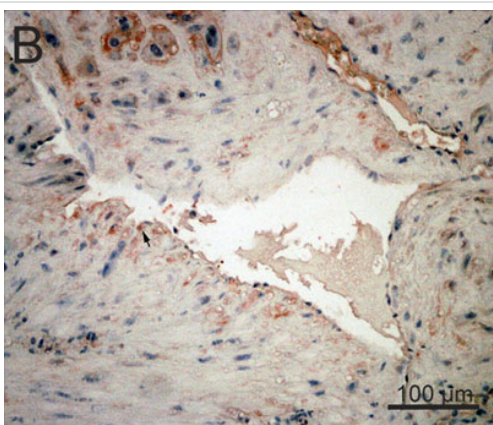
Frozen mouse cardiac tissue was homogenized with lysis buffer containing 50 mmol/L Tris-HCl (pH7.5), 5 mmol/L EDTA, 10 mmol/L EGTA, 1X cock tail protease inhibitor, 1X alkaline phosphatase inhibitor and 1X acid phosphatase inhibitor, 50 ug/ml phenylmethylsulfonyl fluoride and 1.23 mg/ml Chaps. Extracts were centrifuged at 12000 rpm at 4°C for 15 minutes. 10 ug of the sample proteins was mixed with loading buffer (40 mmol/L Tris-HCl, pH 6.8, 1% SDS, 50 mmol/L DTT, 7.5% glycerol and 0.003% bromophenol blue and heated at 95°C for 5 minutes, and subjected to electrophoresis on a gradient gel (4% to 12%) at 120V. After electrophoresis, the protein was transferred to a PVDF membrane in a transfer buffer. The PVDF membrane was rinsed briefly in TBS buffer containing 50 mM Tris, 137 mM NaCl, pH 7.5 and blocked in buffer (5% milk with 0.5% BSA in TBST buffer (TBS buffer containing 0.1% tween 20) at room temperature for 1 hour. The membrane was then incubated with rabbit anti 4-hydroxy-2-noneal (4HNE) antibody at 1/3000 dilution at 4°C over night, followed by washing three times. The secondary antibody was incubated with the membrane for another one hour at room temperature. Finally the antigen-antibody complexes were visualized with use of an enhanced chemiluminescence kit. Anti-GAPDH (Abcam) was used for normalizing.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-4 Hydroxynonenal antibody (ab46545)

Image is courtesy of an anonymous AbReview.

Immunohistochemical analysis of PFA-fixed paraffin-embedded rat femoral tissue, labelling 4-Hydroxynonenal with ab46545 at a dilution of 1/50 incubated for 13 hours at 4°C. Heat mediated antigen retrieval was performed with Tris-EDTA at pH 9.0. Permeabilization was via 0.025% Triton X-100. Blocking was with ab93695 ABC kit at 1% for 20 minutes at room temperature. ab93695 detection kit was used for signal amplification.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-4 Hydroxynonenal antibody (ab46545)

Image from Kweider N et al., PLoS One. 2012;7(10):e47055. doi: 10.1371/journal.pone.0047055. Epub 2012 Oct 9.; Fig 4.; October 9, 2012, PLoS ONE 7(10): e47055.

Immunohistochemical analysis of Human uterine tissue with intrauterine growth restriction, staining 4 Hydroxynonenal with ab46545 at 1/200 dilution. Staining was detected using AEC.

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