

Product datasheet

Anti-4 Hydroxynonenal antibody ab46545

★★★★☆ 18 Abreviews 114 References 3 图像

概述

产品名称	Anti-4 Hydroxynonenal抗体
描述	兔多克隆抗体to 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

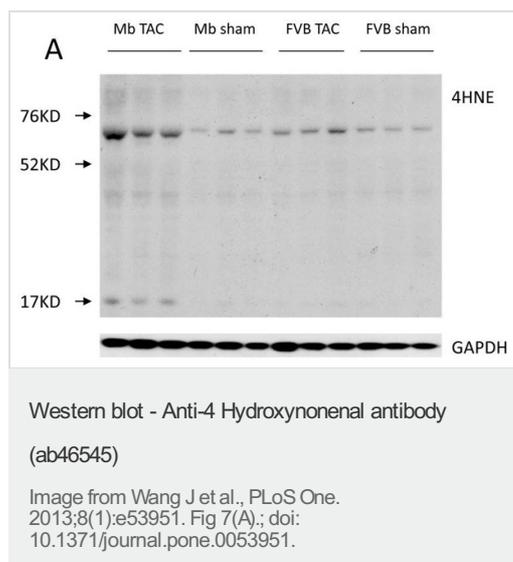
应用	Ab评论	说明
WB	★★★★☆	Use at an assay dependent concentration. Can be blocked with Hydroxynonenal modified Bovine Serum Albumin (ab194193) .
IHC-P	★★★★★	Use at an assay dependent concentration.
ELISA		1/4000 - 1/20000.

靶标

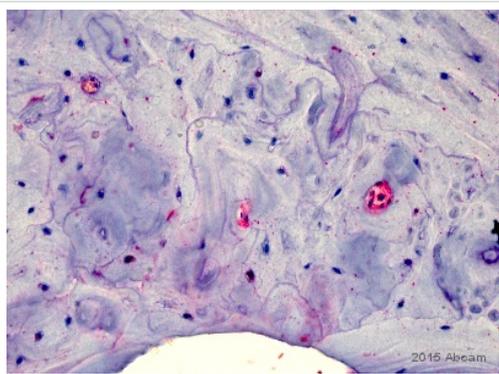
相关性 Aldehydic products of lipid peroxidation, such as 4 hydroxynonenal (4 HNE), have been implicated in the etiology of pathological changes under oxidative stress as a key mediator of oxidative stress induced cell death. It is a stable product of lipid peroxidation, is proarrhythmic and may contribute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

细胞定位 Cytoplasmic

图片



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 phenylmethanesulfonyl fluoride and 1.23 mg/ml Chaps. Extracts were centrifuged at 12,000 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-nonenal (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.

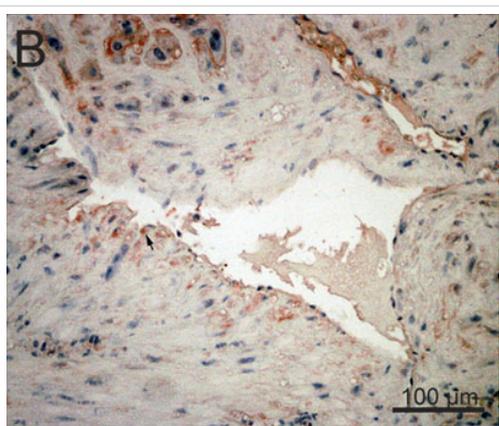


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-4 Hydroxynonenal antibody (ab46545)

Image is courtesy of an anonymous AbReview.

Immunohistochemical analysis of PFA-fixed paraffin-embedded rat femoral tissue, labeling 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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