

Datasheet for ABIN873270

## anti-HNE antibody



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### Overview

Quantity:	100 µL
Target:	HNE
Reactivity:	Please inquire
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HNE antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

### Product Details

Immunogen:	4 Hydroxynonenal conjugated to BSA
Isotype:	IgG
Cross-Reactivity:	Monkey, Mouse, Rat
Cross-Reactivity (Details):	4-Hydroxynonenal
Purification:	Purified by Protein A.

### Target Details

Target:	HNE
Alternative Name:	4 Hydroxynonenal ( <a href="#">HNE Products</a> )

## Target Details

Target Type:	Chemical
Background:	<p>Synonyms: 4-Hydroxy-2-Nonenal, 4Hydroxynonenal, 4-Hydroxynonenal, 4 HNE, 4HNE, 4-HNE, E-4-Hydroxynonenal-dimethylacetal, 4-HNE-DMA.</p> <p>Background: 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 4-HNE has been hypothesized to play a key role in cell signal transduction, in a variety of pathways from cell cycle events to cellular adhesion.</p>

## Application Details

Application Notes:	IHC-P 1:100-500 IF(IHC-P) 1:50-200
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

## Publications

Product cited in:	Chien, Wen, Cheng, Tsai, Chiang, Chien: "Diabetes Upregulates Oxidative Stress and Downregulates Cardiac Protection to Exacerbate Myocardial Ischemia/Reperfusion Injury in Rats." in: <b>Antioxidants (Basel, Switzerland)</b> , Vol. 9, Issue 8, (2020) ( <a href="#">PubMed</a> ).
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Vairappan, Sundhar, Srinivas: "Resveratrol Restores Neuronal Tight Junction Proteins Through Correction of Ammonia and Inflammation in CCl4-Induced Cirrhotic Mice." in: **Molecular neurobiology**, Vol. 56, Issue 7, pp. 4718-4729, (2019) ([PubMed](#)).

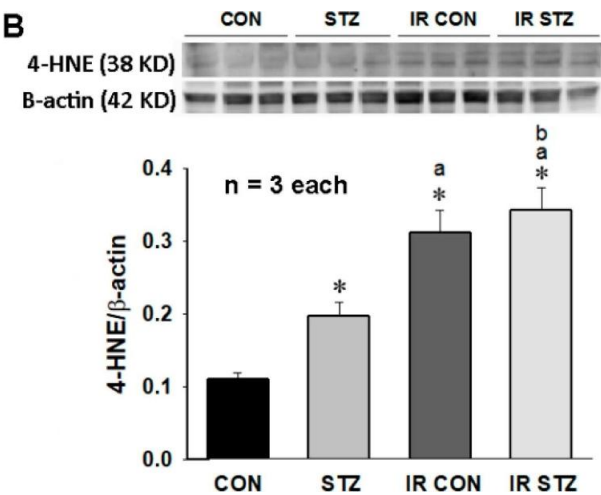
Sapkota, Gaire, Cho, Jeon, Kwon, Jang, Kim, Ryu, Choi: "Eupatilin exerts neuroprotective effects in mice with transient focal cerebral ischemia by reducing microglial activation." in: **PLoS ONE**, Vol. 12, Issue 2, pp. e0171479, (2017) ([PubMed](#)).

Kagaya, Sasaki, Kino, Taniguchi, Kuraishi, Andoh: "Involvement of oxidative stress in increased peripheral nerve firing during spontaneous dysesthesia in a mouse model of ischemia-reperfusion." in: **Neuroscience letters**, Vol. 631, pp. 109-14, (2016) ([PubMed](#)).

Zhang, Song, Pang, Zhang, Wan, Yuan, Wu, Liu: "Hydrogen-rich water protects against acetaminophen-induced hepatotoxicity in mice." in: **World journal of gastroenterology : WJG**, Vol. 21, Issue 14, pp. 4195-209, (2015) ([PubMed](#)).

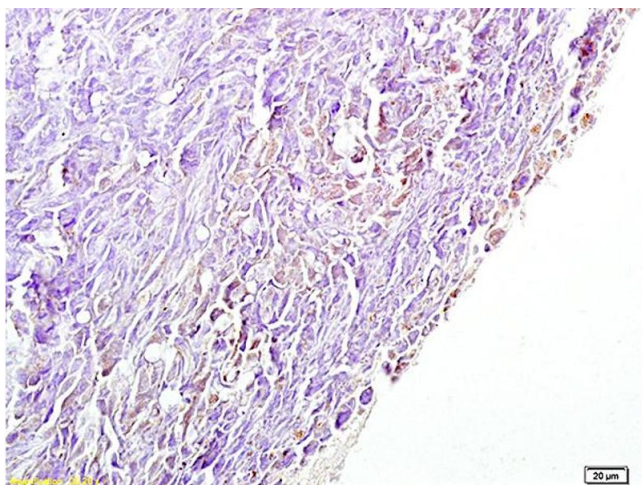
There are more publications referencing this product on: [Product page](#)

Images



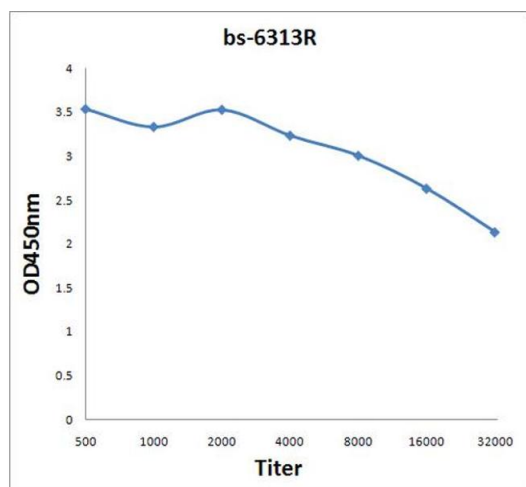
Western Blotting

**Image 1.** The diabetes effect on IR affected cardiac lipid peroxidation in MDA content (A, n = 6), 4-HNE expression (B, n = 3), leukocyte infiltration and cardiac structure (C,D, n = 5), microcirculation (E,F, n = 10) and infarct size (G,H, n = 5) in IR CON and IR STZ rats. Data are expressed as mean ± SEM. In graph C, the arrow indicates the infiltrated leukocyte and the star indicates cardiac structural alteration. \* p < 0.05 vs. CON, a p < 0.05 vs. STZ. - figure provided by CiteAb. Source: PMID32751309



### Immunohistochemistry

**Image 2.** Formalin-fixed and paraffin embedded mouse pancreas labeled with Anti-4-Hydroxynonenal Polyclonal Antibody, Unconjugated (ABIN873270) at 1:200 followed by conjugation to the secondary antibody and DAB staining.



### ELISA

**Image 3.** Antigen: 2 µg/100 µL Primary: Antiserum, 1:500, 1:1000, 1:2000, 1:4000, 1:8000, 1:16000, 1:32000; Secondary: HRP conjugated Rabbit Anti-Goat IgG at 1: 5000; TMB staining Read the data in Microplate Reader by 450nm.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN873270.