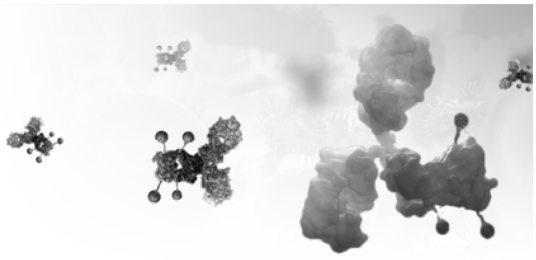

Anti-4 Hydroxynonenal polyclonal antibody [FITC] (CABT-B8934)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purification	Affinity purified
Conjugate	FITC
Applications	ICC/IF
Format	Liquid
Buffer	10 mM PBS, pH 7.4 with 10 mg/ml BSA, 0.03% Proclin 300 and 25% glycerol
Preservative	None
Storage	Store at 4°C for up to two weeks. For long term storage, aliquot and store at -20°C, avoid freeze/thaw cycles.

BACKGROUND

Introduction	4-Hydroxynonenal, or 4-hydroxy-2-nonenal or 4-HNE or HNE, (C9H16O2), is an α,β-unsaturated hydroxyalkenal that is produced by lipid peroxidation in cells. 4-HNE is the primary alpha,beta-unsaturated hydroxyalkenal formed in this process. 4-HNE has 3 reactive groups: an aldehyde, a double-bond at carbon 2, and a hydroxy group at carbon 4. It is found throughout animal tissues, and in higher quantities during oxidative stress due to the increase in the lipid peroxidation chain reaction, due to the increase in stress events. 4-HNE has been

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hypothesized to play a key role in cell signal transduction, in a variety of pathways from cell cycle events to cellular adhesion.

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