

Datasheet: AHP1251

Description:	GOAT ANTI 4-HYDROXYNONENAL
Specificity:	4-HYDROXYNONENAL
Format:	Serum
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 ml

Product Details

Applications	This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further							
	information. For general protocol recommendations, please visit <u>www.bio-</u>							
	rad-antibodies.com/protocols.							
		Yes	No	Not Determined	Suggested Dilution			
	Flow Cytometry							
	Immunohistology - Frozen							
	Immunohistology - Paraffin							
	ELISA				1/10000			
	Immunoprecipitation							
	Western Blotting				1/3000			
	Where this product has n	ot been te	ested for u	se in a particular tech	nique this does not			
	necessarily exclude its us	se in such	procedure	es. Suggested working	g dilutions are given as			
	a guide only. It is recomm	nended th	at the use	r titrates the product for	or use in their own			
	system using appropriate			•				
Target Species	Broad							
Product Form	Serum - liquid							
Antiserum Preparatio	n Antisera to 4-hydroxynon purified antigen.	enal were	raised by	repeated immunisation	ons of goats with highly			
Preservative Stabilisers	0.09% Sodium Azide (Na	N ₃)						
Immunogen	4-hydroxynonenal conjug	ate.						
RRID	AB_877436							
Specificity	Goat anti 4-hydroxynon	enal anti	body reco	gnises 4-hydroxynon	enal (HNE). HNE is a			

	~65 kDa, highly reactive aldehyde released upon oxidation of omega-6-insaturated fatty acids, often by free radicals. HNE acts to spread and increase the initial effects of free radical events. It binds nucleic acids, phospholipids and sulfhydryl, histidine and lysine groups. These conjugates cause the cytotoxic effects (including cell death) that occur during oxidative stress due to hydrogen peroxide, superoxide, UV, heat and oxidant chemicals. HNE plays a role in the pathogenesis of diseases, stimulating fibrogenesis and inflammation. It is thought to act as a sensor of external stimuli, inducing the stress response by modulating membrane receptors such as Epidermal growth factor receptor or Fas.
	It is thought that constitutive levels of HNE may be needed for normal cell functions as decreased HNE levels are associated with cell proliferation and increased HNE levels with elevated apoptosis.
Further Reading	 Boon, P. <i>et al.</i> (1999) Glutathione Conjugation of 4-Hydroxy-trans-2,3-nonenal in the Rat in Vivo, the Isolated Perfused Liver and Erythrocytes. <u>Toxicol. Appl. Pharmacol.</u> <u>159:214-23.</u> Dwivedi S, <i>et al.</i> (2007) Role of 4-hydroxynonenal and its metabolites in signaling. <u>Redox. Rep. 12:4-10.</u>
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #20362 available at: 20362: <u>https://www.bio-rad-antibodies.com/uploads/MSDS/20362.pdf</u>
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) FITC, HRP

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