

Datasheet for ABIN335419

anti-8-OHDG antibody

1 Image

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Overview

Quantity:	100 µg
Target:	8-OHDG
Reactivity:	Please inquire
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This 8-OHDG antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	8-OHDG-conjugated Keyhole Limpet Hemocyanin
Clone:	N45-1
Isotype:	IgG1 kappa
Specificity:	8-OHDG in all species. No observable crossreactivity for the following analogues: guanosine (G), 7methylG, 6SHG, 8bromoG, dA, dC, dT, dI, dU, dG, O6methylG, 8OHdA, guanine (Gua), O6methylGua, 8OHGua, uric acid, Urea, creatine, creatinine Slight but minimal (<1 %) crossreactivity for the following analogues: 8sulfhydrylG and 8OHG 1
Purification:	Prepared as ascites then ammonium sulphate purified

Target Details

Target:	8-OHDG
Alternative Name:	8 Hydroxyguanosine (8-OHDG) (8-OHDG Products)

Target Details

Target Type:	Chemical
Background:	8-hydroxy-2'-deoxyguanosine (8-OHdG) is a product of oxidatively damaged DNA formed by hydroxy radical, singlet oxygen and direct photodynamic action. Anti 8-OHdG monoclonal antibody (clone N45.1) is highly specific for 8-OHdG, and is suitable for immunohistochemistry. Cross reactivity have been checked for 8-OHdG analogues (guanosine(G),7-methyl-G, 6-SH-G, 8-Bromo-G, dA, dC, dT, dI, dU, dG, O6-methyl-dG, 8-OHdA, guanine(Gua),O6-methyl-Gua, 8-OH-Gua, uric acid, urea, creatine, creatinine, 8-sulfhydryl-G, 8-OH-G).

Application Details

Application Notes:	Tested for IHC and ELISA. User should determine optimum titer for each application.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized as 100 ug/mL IgG in 10 mM Phosphate buffered saline, pH7.4 containing 1.0 % BSA.
Storage:	-20 °C

Publications

Product cited in:	<p>Lim, Shin, Luo, Quan, Cui, Ko, Chung, Yang: "Ginseng increases Klotho expression by FoxO3-mediated manganese superoxide dismutase in a mouse model of tacrolimus-induced renal injury." in: Aging, Vol. 11, Issue 15, pp. 5548-5569, (2020) (PubMed).</p> <p>Luo, Yu, Quan, Shin, Lee, Kim, Ko, Chung, Lim, Yang: "Therapeutic potential of coenzyme Q10 in mitochondrial dysfunction during tacrolimus-induced beta cell injury." in: Scientific reports, Vol. 9, Issue 1, pp. 7995, (2019) (PubMed).</p> <p>Wang, Li, Qiao, Xue, Zheng, Chen, Zeng, Liu, Boldogh, Ba: "OGG1-initiated base excision repair exacerbates oxidative stress-induced parthanatos." in: Cell death & disease, Vol. 9, Issue 6, pp. 628, (2019) (PubMed).</p> <p>Zhang, Lu, Yu, Wang, Yan, Zhang, Li, Wang, Wen: "Echinacoside Alleviates UVB Irradiation-Mediated Skin Damage via Inhibition of Oxidative Stress, DNA Damage, and Apoptosis." in: Oxidative medicine and cellular longevity, Vol. 2017, pp. 6851464, (2018) (PubMed).</p>
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Lim, Jin, Luo, Jin, Shin, Hong, Yang: "Klotho enhances FoxO3-mediated manganese superoxide dismutase expression by negatively regulating PI3K/AKT pathway during tacrolimus-induced oxidative stress." in: **Cell death & disease**, Vol. 8, Issue 8, pp. e2972, (2018) ([PubMed](#)).

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

Images

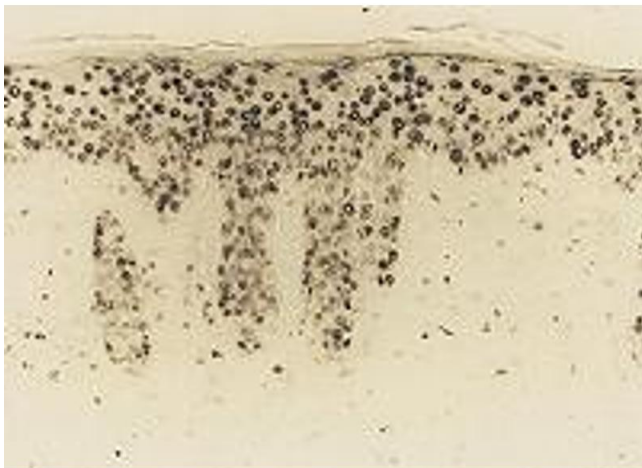


Image 1. Epidermis from hairless mouse by chronic UVB irradiation after 4 weeks of treatment stained with N45.1. (Y.Hattori, et.al.: J Invest Dermatol 107, p733-737, 1997)