

Datasheet for ABIN1020373
8-OHDG ELISA Kit

88 Publications

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Overview

Quantity:	96 tests
Target:	8-OHDG
Reactivity:	Chemical
Method Type:	Competition ELISA
Detection Range:	0.125-10 ng/mL
Minimum Detection Limit:	0.125 ng/mL
Application:	ELISA

Product Details

Purpose:	Highly Sensitive 8-OHdG Check ELISA is suitable for urine, serum , tissue and cultured cells.
Sample Type:	Cell Culture Lysate, Serum, Urine
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Specific for 8-OHDG. Antibody have been tested to 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-sulphydryl-G, 8-OH-G).
Components:	8-OHdG Microtiter Plate: Precoated with 8-OHDG(12 X 8wells, split type)* 1 plate Primary Antibody: Anti 8-OHdG antibody, powder. 1 vial Primary Antibody Solution 1 vial (6mL) Secondary Antibody: HRP-anti mouse antibody, powder. 1 vial Secondary Antibody Solution: 1 vial (12mL)

Product Details

Chromatic Solution: 3,3',5,5'-tetramethylbenzidine. 1 vial (0.25mL)
Diluting Solution: H2O2 containing buffer. 1 vial (12mL)
Washing Solution(5x): 2 vials (26mL x 2)
Reaction Terminating Solution: 1M Phosphoric acid. 1 vial (12mL)
Standard 8-OHdG Solution: Purified 8-OHdG (0.5, 2, 8, 20, 80, 200 ng/mL). 1 vial each
Plate Seal: 2 sheets

Material not included:

- Micropipet and chip (100 µL, 1000 µL)
- Measuring pipet (10 mL, 20 mL)/ measuring cylinders
- 8 or 12-synchronous multichannel pipet and reagent tray for multichannel pipet
- Microplate reader (filter, 450 nm).

Target Details

Target: 8-OHdG

Abstract: [8-OHdG Products](#)

Target Type: Chemical

Background: About 8-hydroxy-2'-deoxyguanosine (8-OHdG): 8-hydroxy-2'-deoxyguanosine (8-OHdG) is a product of oxidatively damaged DNA formed by hydroxy radical, singlet oxygen and direct photodynamic action. 8-OHdG can be detected in tissue, serum, urine and other biomaterials. New 8-OHdG Check is a competitive enzyme-linked immunosorbent assay (ELISA) utilising monoclonal antibody (clone N45.1) which is highly specific for DNA damage, not cross react with RNA oxidation products such as 8-hydroxy-guanine and 8-hydroxy-guanosine. This product is suitable for detection of 8-OHdG in urine and other biomaterials from human and animals. This product is a 8-OHdG ELISA kit utilizing anti 8-OHdG monoclonal antibody (clone N45.1) which is highly specific for 8-OHdG. We provide two types of 8-OHdG ELISA kits with different assay range. Highly Sensitive 8-OHdG Check ELISA is suitable for urine, serum, tissue and cultured cells.

Application Details

Plate: Pre-coated

Restrictions: For Research Use only

Handling

Storage: 4 °C

Publications

Product cited in: Ishibashi, Sato, Rikitake, Seo, Kurokawa, Hara, Naritomi, Hara, Nagao: "Consumption of water containing a high concentration of molecular hydrogen reduces oxidative stress and disease activity in patients with rheumatoid arthritis: an open-label pilot study." in: **Medical gas research**, Vol. 2, Issue 1, pp. 27, (2013) ([PubMed](#)).

Kawakatsu, Urata, Goto, Ono, Li: "Placental extract protects bone marrow-derived stem/progenitor cells against radiation injury through anti-inflammatory activity." in: **Journal of radiation research**, Vol. 54, Issue 2, pp. 268-76, (2013) ([PubMed](#)).

Basavaraj, Vasu Devaraju, Rao: "Studies on serum 8-hydroxy guanosine (8-OHdG) as reliable biomarker for psoriasis." in: **Journal of the European Academy of Dermatology and Venereology : JEADV**, Vol. 27, Issue 5, pp. 655-7, (2013) ([PubMed](#)).

Kim, Shon, Kim, Kim: "Renal podocyte injury in a rat model of type 2 diabetes is prevented by metformin." in: **Experimental diabetes research**, Vol. 2012, pp. 210821, (2012) ([PubMed](#)).

Cai, Chen, Tao, Guo, Liu, Zheng, Sun, Wang: "Association of base excision repair gene polymorphisms with ESRD risk in a Chinese population." in: **Oxidative medicine and cellular longevity**, Vol. 2012, pp. 928421, (2012) ([PubMed](#)).

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