

## Product datasheet

# Anti-8 Hydroxyguanosine antibody ab93295

★★★★★ [1 Abreviews](#)

### Overview

Product name	Anti-8 Hydroxyguanosine antibody
Description	Goat polyclonal to 8 Hydroxyguanosine
Host species	Goat
Specificity	ab93295 detects 8 Hydroxyguanosine in synthetic or other in vitro samples.
Tested applications	<b>Suitable for:</b> ELISA, IHC-P
Species reactivity	<b>Reacts with:</b> Species independent
Immunogen	8 Hydroxyguanosine conjugate

### Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	Preservative: 0.09% Sodium azide Constituent: Whole serum
Purity	Whole antiserum
Clonality	Polyclonal
Isotype	IgG

### Applications

The **Abpromise guarantee** covers the use of ab93295 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		
IHC-P	★★★★★ (1)	

**Application notes**  
ELISA: 1/100000.  
IHC-P: 1/200.

Not yet tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

## Target

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### Relevance

8-Hydroxydeoxyguanosine (8OHdG) is a modified base that occurs in DNA due to attack by hydroxyl radicals that are formed as byproducts and intermediates of aerobic metabolism and during oxidative stress. There is increasing evidence to support the involvement of free radical reactions in the damage of biomolecules that eventually lead to several diseases in humans, such as atherosclerosis, cerebral and heart ischemia-reperfusion injury, cancer, rheumatoid arthritis, inflammation, diabetes, aging, and neurodegenerative conditions, such as Alzheimer's disease. 8OHdG has become increasingly popular as a sensitive, stable and integral marker of oxidative damage in cellular DNA. Biomonitoring in humans has demonstrated that 8OHdG can be excreted in the urine, and that a significant increase is caused by exposure to tobacco smoke and ionizing radiation. Because 8OHdG is so well correlated with oxidative stress and damage to DNA, which leads to degenerative disease states, the development of an antibody that can be used to study DNA damage has numerous applications. In addition to the direct study of DNA damage within cells, this antibody has applications in the development of immunoassays that can monitor 8OHdG excretion in the urine and serve as a biomarker of oxidative stress.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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