

PRODUCT DATA SHEET

Product: Anti-Nitroguanosine, Polyclonal

Cat. No.: PC-110 (50 µg)

Description:

8-Nitroguanosine is a nitrated base of DNA and RNA. It is formed by peroxynitrite, which is generated from nitric oxide and superoxide anion radical. It is known that a large amount of nitric oxide molecules and superoxide anion, generated by inflammation, causes nitration of guanosine. Since chemically modified nucleotides cause mutation during DNA replication, 8-nitroguanosine is thought to be one of the markers of DNA damage related to mutation and cancer.

Specificity:

Anti-Nitroguanosine polyclonal antibody recognizes 8-nitroguanine and 8-nitroguanosine, but it does not cross-react with normal guanosine, guanine, 8-hydroxyguanine or 3-nitrotyrosine.

Species Reactivity:

All species.

Host: Rabbit

Immunoreactivity [IC₅₀]:

Strongly reacts (1 µmol/l): 8-NO₂-guanosine, 8-NO₂-guanine.

No cross-reaction: guanosine, guanine, 8-OH-guanine, 3-NO₂-tyrosine.

Format:

200 µg/ml PBS solution containing 0.1% ProClin as a preservative.

Storage:

Store at -20°C.

Applications and Suggested Dilutions:

- ELISA: Use at 5 µg/ml
- Immunohistochemistry: Use at 10 µg/ml

The optimal dilution for a specific application should be determined by the researcher.

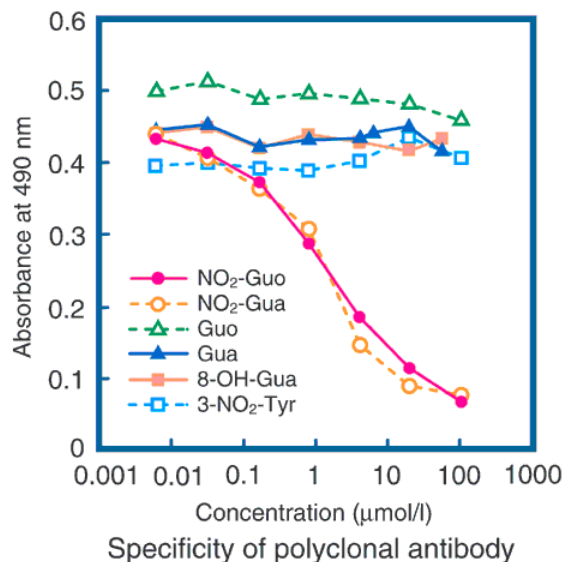


Figure: Competitive ELISA using an 8-nitroguanosine-BSA coated plate.

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.