

## Product datasheet

# Anti-Nitro tyrosine antibody ab23704

### 1 References

#### Overview

<b>Product name</b>	Anti-Nitro tyrosine antibody
<b>Description</b>	Rabbit polyclonal to Nitro tyrosine
<b>Specificity</b>	This antibody reacts against Nitrotyrosine, but with less than 10% reactivity against chlorotyrosine.
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Immunogen</b>	Nitrotyrosine containing synthetic peptide.

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, Tris buffered saline, 0.5mg/ml BSA, pH 7.4
<b>Purity</b>	Protein A purified
<b>Purification notes</b>	This antibody was prepared by affinity purification to exclude non nitrotyrosine antibodies generated against the antigenic peptide backbone.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

#### Applications

Our [Abpromise guarantee](#) covers the use of **ab23704** 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
WB		Use a concentration of 2 µg/ml.

#### Target

## Relevance

Nitric oxide (NO) is a product of the enzymatic conversion of arginine to citrulline by nitric oxide synthase. NO reacts rapidly with superoxide to form peroxynitrite. At physiological pH and in the presence of transition metals, peroxynitrite undergoes heterolytic cleavage to form hydroxyl anion and nitronium ion, the latter of which nitrates protein tyrosine residues. Thus, the presence of nitrotyrosine on proteins can be used as a marker for peroxynitrite formation in vivo. The presence of nitrotyrosine has been detected in various inflammatory processes including atherosclerotic plaques.

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