

Product datasheet

Anti-Nitro tyrosine antibody ab23704

1 References

Overview

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

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: Tris buffered saline, 50% Glycerol, 0.05% BSA
Purity	Protein A purified
Purification notes	This antibody was prepared by affinity purification to exclude non nitrotyrosine antibodies generated against the antigenic peptide backbone.
Clonality	Polyclonal
Isotype	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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