

Product datasheet

Anti-Nitro tyrosine antibody [HM.11] ab7048

★★★★★ 13 Abreviews 64 References 1 Image

Overview

Product name	Anti-Nitro tyrosine antibody [HM.11]
Description	Mouse monoclonal [HM.11] to Nitro tyrosine
Host species	Mouse
Specificity	This antibody reacts with nitrotyrosine, both with the free amino acid as well as with proteins containing nitrotyrosine. The antibody does not recognize other antigens with a nitrotyrosine-like structure such as tyrosine, 3-chlorotyrosine, phosphotyrosine and phenylalanine.
Tested applications	Suitable for: IHC-Fr, IHC-P
Species reactivity	Reacts with: Species independent
Immunogen	Synthetic peptide corresponding to Nitro tyrosine (nitrated) conjugated to Keyhole Limpet Haemocyanin (KLH).
Positive control	WB: mouse kidney lysate, mouse optic nerve, retina , spinal cord and brain lysates, rat aorta lysate(see Abreviews) IHC-P: human lung tissue (see Abreview)
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Constituents: PBS, 0.1% BSA
Purity	Protein G purified
Clonality	Monoclonal
Clone number	HM.11

Isotype

IgG2b

Applications

The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab7048 in the following tested applications.

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

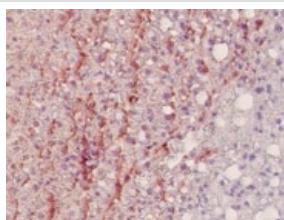
Application	Abreviews	Notes
IHC-Fr		Use at an assay dependent concentration. Acetone fixation 10 min -20 degree C; block endogenous peroxidase by 0.3 % H2O2 in PBS (or methanol for intracellular staining); block with 10% NGS or 5 % BSA for 30 min.
IHC-P	★★★★★ (3)	1/200 - 1/400. 10% formalin fixation; 3% H ₂ O ₂ to block endogenous peroxidases; Citrate buffer pH 6.0 for 1 min at 100°C as antigen retrieval treatment

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.

Images



ab7048 at 2 µg/ml staining Nitrotyrosine in Human liver from a severely obese patient. ab7048 was incubated for 1 hour at room temperature.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nitro tyrosine antibody [HM.11] (ab7048)

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

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