

### Anti-Nitrotyrosine antibody [HM.11] ab7048

★★★★★ [13 Abreviews](#) [70 References](#) [1 Image](#)

#### Overview

<b>Product name</b>	Anti-Nitrotyrosine antibody [HM.11]
<b>Description</b>	Mouse monoclonal [HM.11] to Nitrotyrosine
<b>Host species</b>	Mouse
<b>Specificity</b>	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.
<b>Tested applications</b>	<b>Suitable for:</b> IHC-Fr, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Species independent
<b>Immunogen</b>	Synthetic peptide corresponding to Nitro tyrosine (nitrated ) conjugated to Keyhole Limpet Haemocyanin (KLH).
<b>Positive control</b>	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)
<b>General notes</b>	<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&amp;As</p>

#### 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>	Constituents: PBS, 0.1% BSA
	WARNING!!: Do not add sodium azide or nitric containing perservative as it will damage the antibody.
<b>Purity</b>	Protein G purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	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.

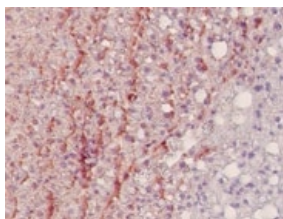
Application	Abreviews	Notes
IHC-Fr		Use at an assay dependent concentration. Acetone fixation 10 min -20 degree C; block endogenous peroxidase by 0.3 % H <sub>2</sub> O <sub>2</sub> in PBS (or methanol for intracellular staining); block with 10% NGS or 5 % BSA for 30 min.
IHC-P	★★★★★ (3)	1/200 - 1/400.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

## Target

### Relevance

The cellular production of highly reactive nitrogen species derived from nitric oxide, such as peroxynitrite, nitrogen dioxide and nitryl chloride, leads to the nitration of tyrosine residues in tissue proteins. The extent of protein nitrotyrosine formation provides an index of the production of reactive nitrogen species and potential cell damage over a period of time. Nitrotyrosine can be measured by amino-acid analysis of protein hydrolysates and detected, estimated semi-quantitatively and located in cells and tissues by immunocytochemical techniques using antibodies directed against the nitrotyrosine hapten.

## 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-Nitrotyrosine antibody  
[HM.11] (ab7048)

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

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