

Anti-3-Nitrotyrosine antibody [39B6] ab61392

★★★★★ [9 Abreviews](#) [130 References](#) [6 Images](#)

Overview

Product name	Anti-3-Nitrotyrosine antibody [39B6]
Description	Mouse monoclonal [39B6] to 3-Nitrotyrosine
Host species	Mouse
Specificity	No detectable crossreactivity with non-nitrated tyrosine. Not species specific.
Tested applications	Suitable for: IHC-P, WB
Species reactivity	Reacts with: Species independent
Immunogen	Full length protein corresponding to 3-Nitrotyrosine. 3-(4-hydroxy-3-nitrophenylacetamido) propionic acid-bovine serum albumin
Positive control	SIN-1 (3-morpholinosydnonimine) treated BSA. Use between 1-2.5mM SIN-1 for 1-24 hours, grow cells under normal growth conditions. Please see Yasuda S, Idell S, Liu MC. Biochem J. 2007 Jan 15;401(2):497-503. PMID: 17002600. IHC-P: Mouse back skin and inflamed colon tissue; Human colon carcinoma tissue. Rat liver tissue. WB: A549 cell lysate.
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. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.09% Sodium azide Constituents: PBS, 50% Glycerol
Purity	Protein G purified
Clonality	Monoclonal
Clone number	39B6

Isotype	IgG2a
Light chain type	kappa

Applications

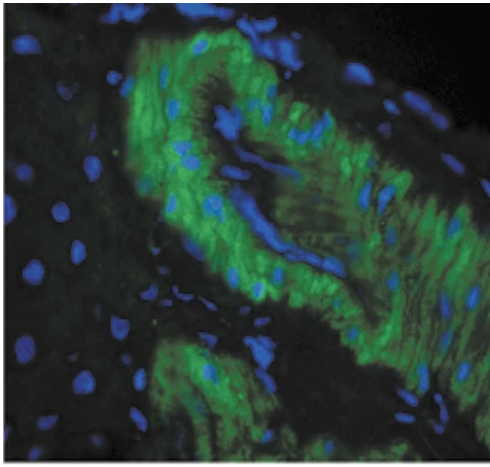
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab61392 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P	★★★★★ (3)	1/100.
WB	★★★★★ (6)	1/1000. We would recommend a 1:1000 dilution for the antibody, for 2 hours at RT. For blocking, use milk.

Target

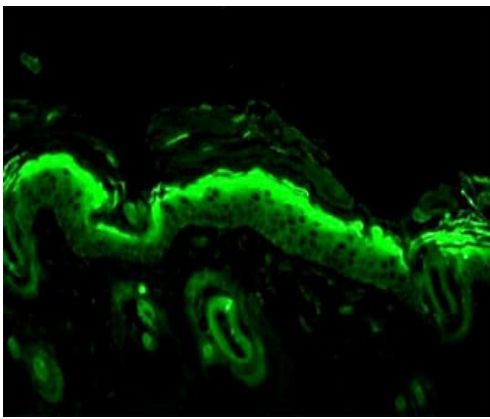
Relevance Protein tyrosine nitration results in a post-translational modification that is increasingly receiving attention as an important component of nitric oxide signaling. While multiple nonenzymatic mechanisms are known to be capable of producing nitrated tyrosine residues, most tyrosine nitration events involve catalysis by metalloproteins such as myeloperoxidase, eosinophilperoxidase, myoglobin, the cytochrome P-450s, superoxide dismutase and prostacyclin synthase. Various studies have shown that protein tyrosinenitration is limited to specific proteins and that the process is selective. For example, exposure of human surfactant protein A, SP-A, to oxygen-nitrogen intermediates generated by activated alveolar macrophages resulted in specific nitration of SP-A at tyrosines 164 and 166, while addition of 1.2 mMCO 2 resulted in additional nitration at tyrosine 161. The presence of nitrotyrosine-containing proteins has shown high correlation to disease states such as atherosclerosis, Alzheimer's disease, Parkinson's disease and amyotrophic lateral sclerosis.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-3-Nitrotyrosine antibody [39B6] (ab61392)

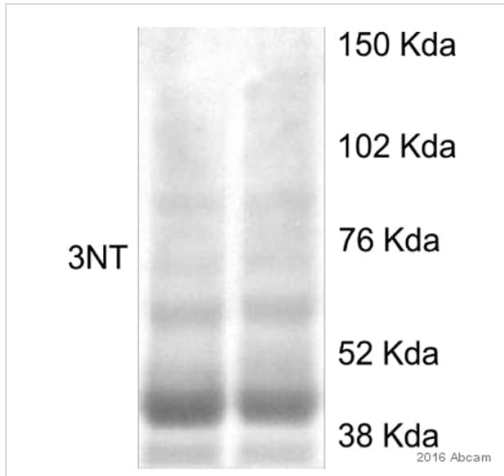
ab61392 staining 3-nitrotyrosine in Bouin's fixed paraffin-embedded Rat liver tissue at 1/1000 dilution. FITC-conjugated goat anti-mouse IgG(green) was used as a secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-3-Nitrotyrosine antibody [39B6] (ab61392)

ab61392 staining 3-nitrotyrosine in Bouin's fixed paraffin-embedded backskin sections of transgenic mice.

Blocker: 5% goat serum in buffer. Buffer: 99% washing buffer (7g BSA and 222ul gelatin topped up to 1L dH₂O), 1% heat inactivated goat serum. Primary Dilution: 1/100 for 1 hour at room temperature. Secondary: FITC-conjugated goat anti-mouse IgG, 1/50 for 1 hour at room temperature.



Western blot - Anti-3-Nitrotyrosine antibody [39B6] (ab61392)

This image is courtesy of an anonymous Abreview

All lanes : Anti-3-Nitrotyrosine antibody [39B6] (ab61392) at 1/3000 dilution

All lanes : Mouse skeletal muscle

Lysates/proteins at 20 µg per lane.

Secondary

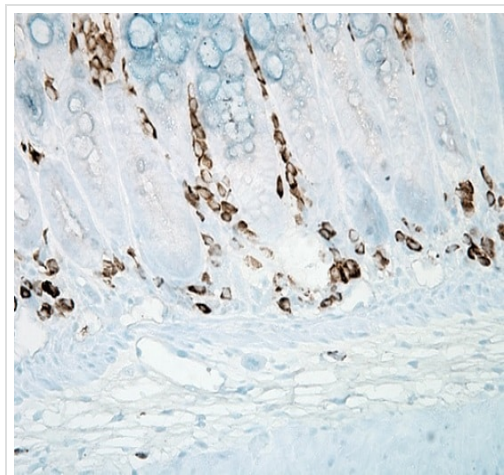
All lanes : Goat anti-Mouse HRP conjugated at 1/6000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Exposure time: 4 seconds

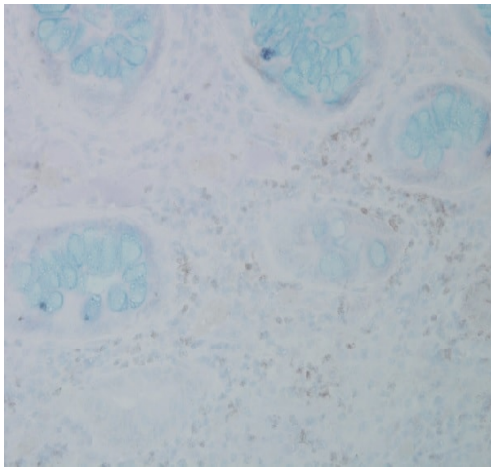
Blocked with 5% milk for 2 hours.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-3-Nitrotyrosine antibody [39B6] (ab61392)

Formalin-fixed, paraffin-embedded mouse inflamed colon tissue stained for Nitrotyrosine using ab61392 at 1/1000000 dilution in immunohistochemical analysis.

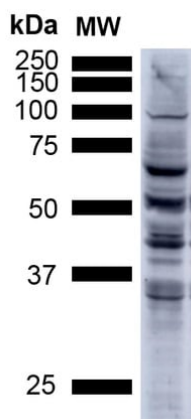
Secondary Antibody: Biotin Goat Anti-Mouse at 1/2000 for 1 hour at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 200 µl for 2 minutes at RT.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-3-Nitrotyrosine antibody [39B6] (ab61392)

Formalin-fixed, paraffin-embedded human colon carcinoma tissue stained for Nitrotyrosine using ab61392 at 1/25000 dilution in immunohistochemical analysis.

Secondary Antibody: Biotin Goat Anti-Mouse at 1/2000 for 1 hour at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 200 µl for 2 minutes at RT.



Western blot - Anti-3-Nitrotyrosine antibody [39B6] (ab61392)

Anti-3-Nitrotyrosine antibody [39B6] (ab61392) at 1/1000 dilution (2.5 hours at RT with shaking) + A549 (Human lung carcinoma cell line) cell lysate at 15 µg

Secondary

Goat anti-mouse IgG HRP, 1 hour at RT with shaking at 1/1000 dilution

Block: 5% Skim milk powder in TBST.

Color Development: Chemiluminescent for HRP for 5 mins at RT.

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

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