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Datasheet for ABIN2486182

## anti-Nitrotyrosine antibody (Atto 390)

### 7 Images

#### Overview

Quantity:	100 µg
Target:	Nitrotyrosine
Reactivity:	Please inquire
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Nitrotyrosine antibody is conjugated to Atto 390
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunoprecipitation (IP), Flow Cytometry (FACS), Immunocytochemistry (ICC), Immunofluorescence (IF), Antibody Array (AA)

#### Product Details

Immunogen:	3-(4-hydroxy-3-nitrophenylacetamido) propionic acid-bovine serum albumin
Clone:	39B6
Isotype:	IgG2a
Specificity:	Recognizes 3-nitrotyrosine moieties. No detectable cross-reactivity with non-nitrated tyrosine. Not species specific.
Purification:	Protein G Purified

#### Target Details

Target:	Nitrotyrosine
Abstract:	<a href="#">Nitrotyrosine Products</a>

## Target Details

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Target Type:	Chemical
Background:	<p>Protein tyrosine nitration results in a post-translational modification that is increasingly receiving attention as an important component of nitric oxide signaling (2). 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, eosino-philperoxidase (3), myoglobin, the cytochrome P-450s, superoxide dismutase and prostacyclin synthase. Nitrotyrosine may also serve as a biomarker for the effects of reactive nitrogen oxides, based on tyrosine residues becoming nitrated in proteins at sites of inflammation induced tissue injury (1). The presence of nitro tyrosine-containing proteins therefore has shown high correlation to disease states such as atherosclerosis, Alzheimer's disease, Parkinson's disease and amyotrophic lateral sclerosis (4).</p>

## Application Details

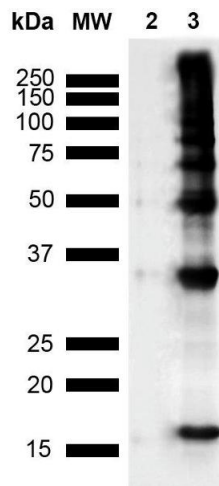
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Application Notes:	<ul style="list-style-type: none"><li>• WB (1:1400)</li><li>• IHC (1:100)</li><li>• optimal dilutions for assays should be determined by the user.</li></ul>
Comment:	0.7 µg/ml of ABIN2486182 was sufficient for detection of 5 µg SIN-1 treated BSA by Western Blot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only

## Handling

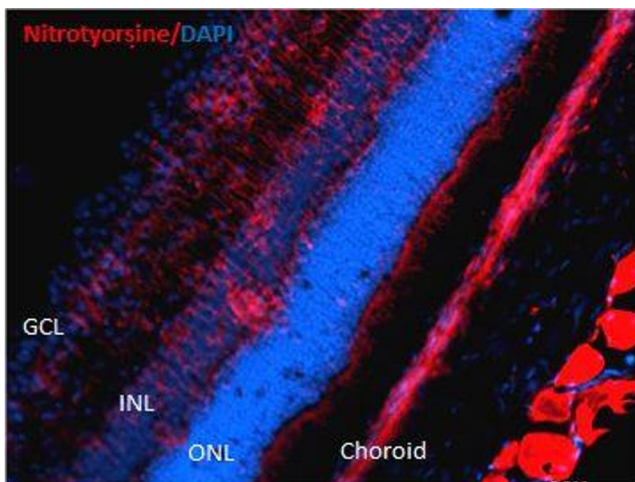
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Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Conjugated antibodies should be stored at 4°C



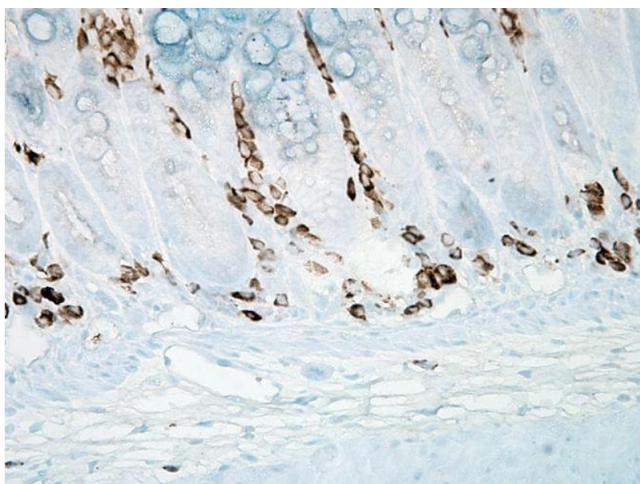
### Western Blotting

**Image 1.** Western Blot analysis of Human Recombinant Protein showing detection of Multiple Bands Nitrotyrosine protein using Mouse Anti-Nitrotyrosine Monoclonal Antibody, Clone 39B6 (ABIN2486182). Lane 1: MW Ladder. Lane 2: hASYN Monomer (3.84 µg). Lane 3: Nitrosylated hASYN (3.84 µg). Block: 5 % Skim Milk Powder in TBST. Primary Antibody: Mouse Anti-Nitrotyrosine Monoclonal Antibody (ABIN2486182) at 1:1000 for 2 hours at RT with shaking. Secondary Antibody: Goat anti-mouse IgG:HRP at 1:4000 for 2 hour at RT with shaking. Color Development: Chemiluminescent for HRP (Moss) for 5 min in RT. Predicted/Observed Size: Multiple Bands.



### Immunohistochemistry

**Image 2.** Immunohistochemistry analysis using Mouse Anti-Nitrotyrosine Monoclonal Antibody, Clone 39B6. Tissue: Retinal Injury Model. Species: Mouse. Primary Antibody: Mouse Anti-Nitrotyrosine Monoclonal Antibody at 1:1000. Secondary Antibody: Alexa Fluor 594 Goat Anti-Mouse (red). Courtesy of: Dr. Rajashekhar Gangaraju, University of Indiana, Department of Ophthalmology, Eugene and Marilyn Glick Eye Institute.



### Immunohistochemistry

**Image 3.** Immunohistochemistry analysis using Mouse Anti-Nitrotyrosine Monoclonal Antibody, Clone 39B6. Tissue: inflamed colon. Species: Mouse. Fixation: Formalin. Primary Antibody: Mouse Anti-Nitrotyrosine Monoclonal Antibody at 1:1000000 for 12 hours at 4°C. 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. Magnification: 40x.

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN2486182.