

# Product Datasheet

## Nitrotyrosine Antibody (39B6) - BSA Free NB110-96877

Unit Size: 0.1 mg

Store at -20C.

[www.novusbio.com](http://www.novusbio.com)



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Updated 2/21/2025 v.20.1

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**NB110-96877**

Nitrotyrosine Antibody (39B6) - BSA Free

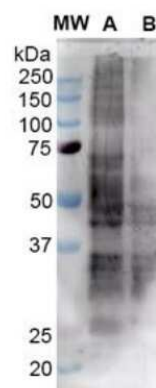
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at -20C.
Clonality	Monoclonal
Clone	39B6
Preservative	0.09% Sodium Azide
Isotype	IgG2a
Purity	Protein G purified
Buffer	PBS, 50% Glycerol

Product Description	
Host	Mouse
Species	Rat, Non-species specific
Reactivity Notes	Species Independent. Rat reactivity reported in scientific literature (PMID:32980492)
Specificity/Sensitivity	Recognizes 3-nitrotyrosine moieties. No detectable cross-reactivity with non-nitrated tyrosine. Not species specific.
Immunogen	3-(4-hydroxy-3-nitrophenylacetamido) propionic acid-bovine serum albumin

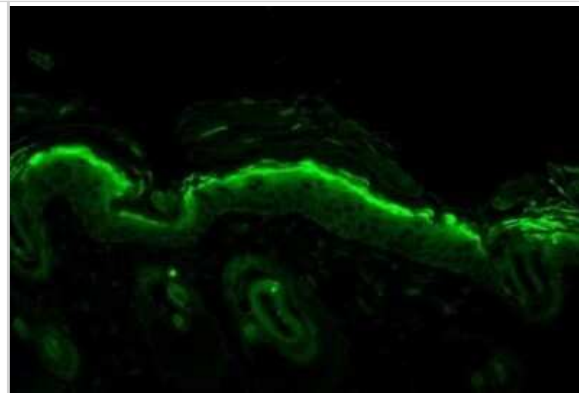
Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Microarray
Recommended Dilutions	Western Blot 1:1400, Flow Cytometry, ELISA, Immunohistochemistry 1:100, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Immunohistochemistry-Paraffin 1:100, Microarray

**Images**

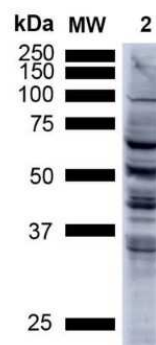
Western Blot: Nitrotyrosine Antibody (39B6) [NB110-96877] - Western Blot analysis of Human HEK293 cells showing detection of Nitrotyrosineprotein using Mouse Anti-NitrotyrosineMonoclonal Antibody, Clone 39B6 (NB110-96877). Lane 1: MW Ladder. Lane A: Nitrosylated-HEK293 (15uL). Lane B: HEK293 (15 ug). Block: 5% Skim Milk Powder in TBST. Primary Antibody: Mouse Anti-NitrotyrosineMonoclonal Antibody (NB110-96877) diluted in 1.5% BSA and TBST for 1 hours at RT with shaking . Secondary Antibody: Goat anti-mouse IgG: HRP at 1:4000 for 1 hour at RT with shaking . Predicted/Observed Size: Multiple Bands.



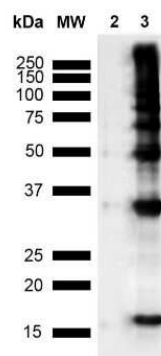
**Immunohistochemistry: Nitrotyrosine Antibody (39B6) [NB110-96877] -** Immunohistochemistry analysis using Mouse Anti-Nitrotyrosine Monoclonal Antibody, Clone 39B6 (NB110-96877). Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-Nitrotyrosine Monoclonal Antibody (NB110-96877) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Backskin obtained from transgenic mice.



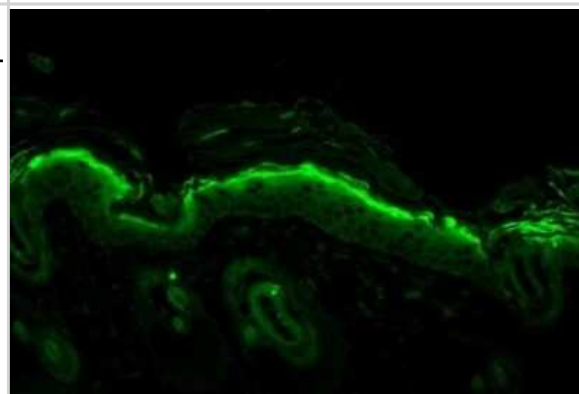
**Western Blot: Nitrotyrosine Antibody (39B6) [NB110-96877] -** Western Blot analysis of Human A549 cells showing detection of Multiple Bands Nitrotyrosine protein using Mouse Anti-Nitrotyrosine Monoclonal Antibody, Clone 39B6 (NB110-96877). Lane 1: MW ladder. Lane 2: Human A549 Cells 15 ug). Load: 15 ug. Block: 5% Skim Milk Powder in TBST. Primary Antibody: Mouse Anti-Nitrotyrosine Monoclonal Antibody (NB110-96877) at 1:1000 for 2.5 hours at RT with shaking . Secondary Antibody: Goat anti-mouse IgG:HRP at 1:1000 for 1 hour at RT with shaking . Color Development: Chemiluminescent for HRP (Moss) for 5 min in RT. Predicted/Observed Size: Multiple Bands.



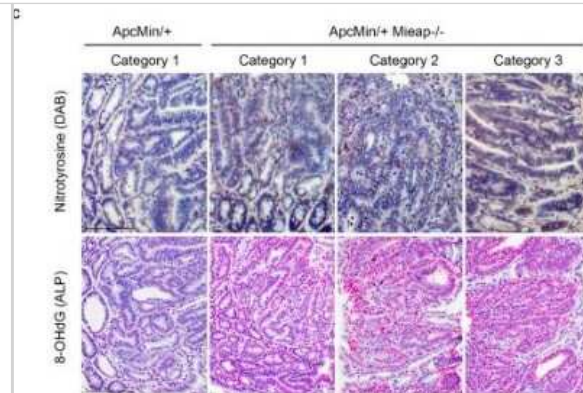
**Western Blot: Nitrotyrosine Antibody (39B6) [NB110-96877] -** Western Blot analysis of Human Recombinant Protein showing detection of Multiple Bands Nitrotyrosine protein using Mouse Anti-Nitrotyrosine Monoclonal Antibody, Clone 39B6 (NB110-96877). Lane 1: MW Ladder. Lane 2: hASYN Monomer (3.84 ug). Lane 3: Nitrosylated hASYN (3.84 ug).. Block: 5% Skim Milk Powder in TBST. Primary Antibody: Mouse Anti-Nitrotyrosine Monoclonal Antibody (NB110-96877) 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.



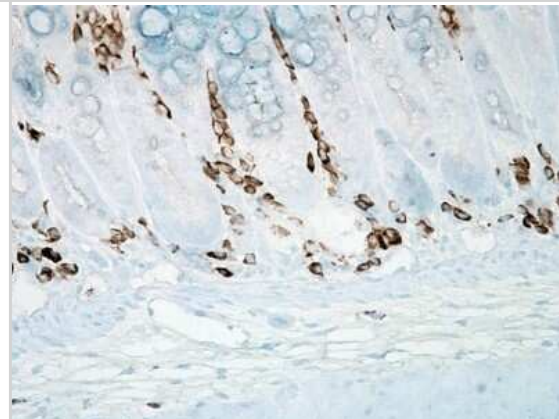
**Immunohistochemistry: Nitrotyrosine Antibody (39B6) [NB110-96877] -** Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-Nitrotyrosine Monoclonal Antibody at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT.



Immunohistochemistry-Paraffin: Nitrotyrosine Antibody (39B6) [NB110-96877] - Immuno-peroxidase (DAB) staining for nitrotyrosine (upper row) and immuno-alkaline phosphatase (ALP) staining for 8-OHdG (bottom row), hematoxylin counterstain. Representative small intestinal tumor histopathology of Category 1 (low-grade adenoma) in ApcMin/+ (left column) and ApcMin/+ Mieap-/- (second from left column) mice, Category 2 (high-grade adenoma, second from right column) and Category 3 (adenocarcinoma, right column) in the ApcMin/+ Mieap-/- mice. Scale bars: 100 um. Image collected and cropped by CiteAb from the following publication (<https://www.nature.com/articles/srep12472>), licensed under a CC-BY license.



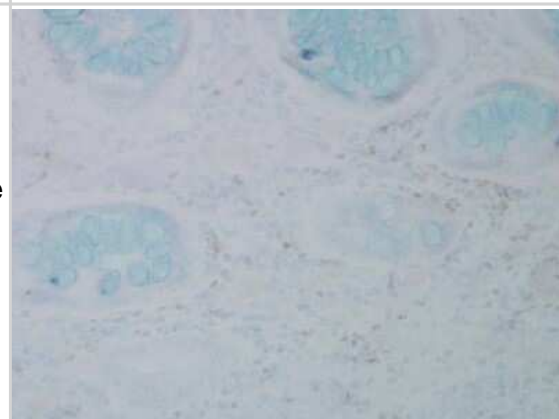
Immunohistochemistry: Nitrotyrosine Antibody (39B6) [NB110-96877] - Immunohistochemistry analysis using Mouse Anti-Nitrotyrosine Monoclonal Antibody, Clone 39B6 (NB110-96877). Tissue: inflamed colon. Species: Mouse. Fixation: Formalin. Primary Antibody: Mouse Anti-Nitrotyrosine Monoclonal Antibody (NB110-96877) at 1:1000000 for 12 hours at 4C. Secondary Antibody: Biotin Goat Anti-Mouse at 1:2000 for 1 hour at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 200 I for 2 minutes at RT. Magnification: 40x. With anti-microbial. This image was produced using an amplifying IHC wash buffer. The antibody has therefore been diluted more than is recommended for other applications.



Immunohistochemistry: Nitrotyrosine Antibody (39B6) [NB110-96877] - Immunohistochemistry analysis using Mouse Anti-Nitrotyrosine Monoclonal Antibody, Clone 39B6 (NB110-96877). Tissue: liver tissue. Species: Rat. Primary Antibody: Mouse Anti-Nitrotyrosine Monoclonal Antibody (NB110-96877) at 1:1000. Secondary Antibody: FITC Goat Anti-Mouse (green).



Immunohistochemistry: Nitrotyrosine Antibody (39B6) [NB110-96877] - Immunohistochemistry analysis using Mouse Anti-Nitrotyrosine Monoclonal Antibody, Clone 39B6 (NB110-96877). Tissue: colon carcinoma. Species: Human. Fixation: Formalin. Primary Antibody: Mouse Anti-Nitrotyrosine Monoclonal Antibody (NB110-96877) at 1:25000 for 12 hours at 4C. Secondary Antibody: Biotin Goat Anti-Mouse at 1:2000 for 1 hour at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 200 I for 2 minutes at RT. Magnification: 40x.



## Publications

Gao L, Qi Hb, Kc K et al. Excessive autophagy induces the failure of trophoblast invasion and vasculature: possible relevance to the pathogenesis of preeclampsia. *J. Hypertens.* 2014-10-15 [PMID: 25318653]

Villalobos-Labra R, Liu R, Spaans F et al. Placenta-Derived Extracellular Vesicles from Preeclamptic and Healthy Pregnancies Impair ex vivo Vascular Endothelial Function *Bioscience reports* 2022-11-21 [PMID: 36408626]

Przepiorski A, Vanichapol T, Espiritu E Et al. Modeling oxidative injury response in human kidney organoids *Stem Cell Res Ther* 2022-02-22 [PMID: 35189973]

Przepiorski A, Vanichapol T, Espiritu E Et al. Modeling oxidative injury response in human kidney organoids *Research Square* 2021-08-24 [PMID: 27194714] (IF/IHC, Human)

Wang J, Zhang W, Li M, Li X The new coumarin compound Bis 3 ameliorates cognitive disorder and suppresses brain-intestine-liver systematic oxidative stress in high-fat diet mice *Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie* 2021-01-20 [PMID: 33485120]

Ding R, Ou W, Chen C et al. Endoplasmic reticulum stress and oxidative stress contribute to neuronal pyroptosis caused by cerebral venous sinus thrombosis in rats: involvement of TXNIP/oxalyl-LDL-NLRP3 inflammasome activation *Neurochem. Int.* 2020-09-24 [PMID: 32980492] (WB, Rat)

Yu S, Zhai J, Yu J et al. Downregulation of BACH1 Protects AGAINST Cerebral Ischemia/Reperfusion Injury through the Functions of HO-1 and NQO1 *Neuroscience* 2020-04-18 [PMID: 32311410] (ICC/IF)

Wang M, Law ME, Davis BJ, et al. A novel biscoumarin compound ameliorates cerebral ischemia reperfusion-induced mitochondrial oxidative injury via Nrf2/Keap-1/ARE signaling *Neuropharmacology* 2019-12-21 [PMID: 31874170] (ICC/IF, IF/IHC)

Tsuneki M, Nakamura Y, Kinjo T et al. Mieap suppresses murine intestinal tumor via its mitochondrial quality control *Sci Rep* 2015-07-28 [PMID: 26216032] (IHC-P)

Ganguly E, Aljunaidy M, Kirschenman R Sex-Specific Effects of Nanoparticle-Encapsulated MitoQ (nMitoQ) Delivery to the Placenta in a Rat Model of Fetal Hypoxia *Front. Physiol.* May 24 2019 12:00AM [PMID: 31178743] (ICC/IF, Rat)

Guha S, Chaurasia S, Ramachandran C, Roy, S. SLC4A11 depletion impairs NRF2 mediated antioxidant signaling and increases reactive oxygen species in human corneal endothelial cells during oxidative stress. *Sci Rep.* 2017-06-22 [PMID: 28642546] (ICC/IF, Human)

Gao L, Qi Hb, Kc K et al. Excessive autophagy induces the failure of trophoblast invasion and vasculature: possible relevance to the pathogenesis of preeclampsia. *J. Hypertens.* 2014 Oct 15 [PMID: 25318653] (ICC/IF, Human)



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### **Products Related to NB110-96877**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96778	Mouse IgG2a Isotype Control (M2A)

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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