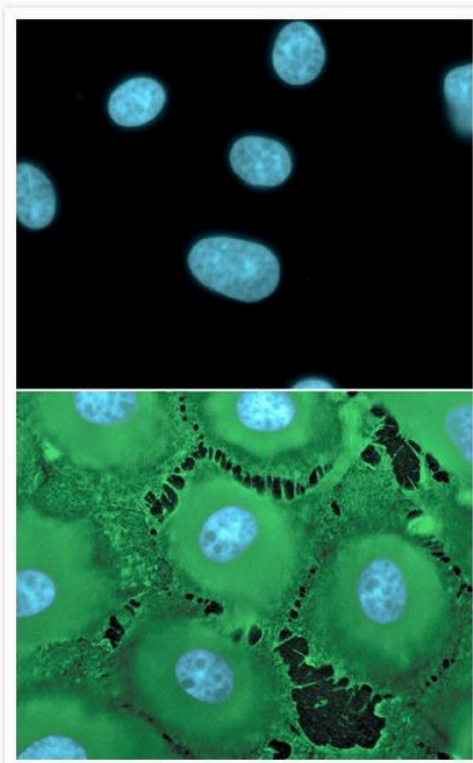


# Nitrotyrosine Polyclonal Antibody

Product Details	
Size	500 µL
Species Reactivity	Chemical
Published Species	Chemical, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Keyhole limpet hemocyanin (KLH) containing nitrated tyrosines
Form	Liquid
Concentration	1 mg/mL
Purification	purified
Storage buffer	PBS, pH 7.2
Contains	5mM sodium azide
Storage conditions	4° C
RRID	AB_221457

Applications	Tested Dilution	Publications
Western Blot (WB)	1:200-1:2,000	13 Publications
Immunohistochemistry (IHC)	1:200-1:2,000	25 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	10 Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Immunocytochemistry (ICC/IF)	Assay-dependent	5 Publications
ELISA (ELISA)	-	2 Publications
Radioimmune Assays (RIA)	-	1 Publication
Competition Assay (CA)	-	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

Product Images For Nitrotyrosine Polyclonal Antibody



**Nitrotyrosine Antibody (A-21285) in ICC/IF**

Nitrated tyrosine residues in bovine pulmonary artery endothelial cells detected with rabbit anti-nitrotyrosine antibody. Fixed and permeabilized bovine pulmonary artery endothelial cells were treated with either degraded peroxynitrite (top panel) or 100  $\mu$ M peroxynitrite (bottom panel) for five minutes at room temperature to induce protein nitration. Nitrated tyrosine residues were detected with our rabbit anti-nitrotyrosine polyclonal antibody (Product # A-21285) and visualized with the green-fluorescent Alexa Fluor® 488 goat anti-rabbit IgG antibody (Product # A-11008). Nuclei were counterstained with blue-fluorescent DAPI (Product # D1306, D3571, D21490).



CaptAvidin Dimer

CaptAvidin

**Nitrotyrosine Antibody (A-21285) in WB**

Specificity of our rabbit anti-nitrotyrosine polyclonal antibody (Product # A-21285) to nitrated proteins. Equal amounts of avidin (A887, lane 1) and CaptAvidin™ biotin-binding protein (Product # C-21385, lane 2) were run on an SDS-polyacrylamide gel (4-20%) and blotted onto a PVDF membrane. CaptAvidin™ biotin-binding protein, a derivative of avidin, has nitrated tyrosine residues in the biotin-binding site. Using the Pro-Q® Western Blot Stain Kit #3 (Product # P21864), nitrated proteins were identified with the rabbit anti-nitrotyrosine polyclonal antibody, in combination with an alkaline phosphatase conjugate of goat anti-rabbit IgG antibody (Product # G-21079) and the red-fluorescent substrate, DDAO phosphate (Product # D6487).

View more figures on [thermofisher.com](https://thermofisher.com)

Western Blot (13)

International journal of molecular sciences	Year 2023
Attenuation of Tumor Burden in Response to Rucaparib in Lung Adenocarcinoma: The Contribution of Oxidative Stress, Apoptosis, and DNA Damage.	Species Chemical
"A-21285 was used in Western Blotting to propose the contribution of PARP inhibitors to reduced tumor burden in lung adenocarcinoma."	Dilution 1:1000
Authors: Pérez-Peiró M, Valentí-Serra P, León-González B, Ampurdanés C, Duran X, Yélamos J, Barreiro E	
Nature communications	Year 2021
Interplay of two transcription factors for recruitment of the chromatin remodeling complex modulates fungal nitrosative stress response.	Species Chemical
"Published figure using Nitrotyrosine polyclonal antibody (Product # A-21285) in Western Blot"	
Authors: Jian Y, Liu Z, Wang H, Chen Y, Yin Y, Zhao Y, Ma Z	

View more WB references on thermofisher.com

Immunohistochemistry (25)

Antioxidants (Basel, Switzerland)	Year 2021
Nutraceutical Strategy to Counteract Eye Neurodegeneration and Oxidative Stress in <i>Drosophila melanogaster</i> Fed with High-Sugar Diet.	Species Chemical
"A-21285 was used in Immunohistochemistry-immunofluorescence to demonstrate that the continuous supplementation with the alimentary integrator Lisosan G exerts a robust and multifaceted antioxidant effect on retinal neurons, thus providing efficacious neuroprotection of hyperglycemic eye."	
Authors: Catalani E, Fanelli G, Silvestri F, Cherubini A, Del Quondam S, Bongiorno S, Taddei AR, Ceci M, De Palma C, Perrotta C, Rinalducci S, Prantera G, Cervia D	
Oxidative medicine and cellular longevity	Year 2021
Antioxidant Solution in Combination with Angiotensin-(1-7) Provides Myocardial Protection in Langendorff-Perfused Rat Hearts.	Species Chemical
"A-21285 was used in Immunohistochemistry to indicate substantial cardioprotection of the novel combination with promising prospective for future clinical use."	Dilution 1:200
Authors: Andrä M, Russ M, Jauk S, Lamacie M, Lang I, Arnold R, Brcic I, Santos R, Wintersteiger R, Ortner A	

View more IHC references on thermofisher.com

More applications with references on thermofisher.com

- IHC (P) (10)
- IHC (PFA) (1)
- IHC (F) (2)
- ICC/IF (5)
- ELISA (2)
- RIA (1)
- CA (1)
- Misc (1)

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