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Datasheet for ABIN1385080

anti-Nitrotyrosine antibody

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Overview

Quantity:	100 µL
Target:	Nitrotyrosine
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Nitrotyrosine antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated to Nitrotyrosine
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Cross-Reactivity (Details):	Nitrotyrosine
Purification:	Purified by Protein A.

Target Details

Target:	Nitrotyrosine
Abstract:	Nitrotyrosine Products

Target Details

Target Type: Chemical

Background: Synonyms: NULL

Background: Nitrotyrosine is a marker for inflammation and nitric oxide (NO) production and is formed in the presence of the active metabolite NO. Because nitrotyrosine is a stable product of multiple pathways, such as the formation of peroxynitrite, its plasma concentration may be a useful determinant of NO-dependent damage in vivo. Nitrotyrosine has been detected in inflammatory processes such as septic shock, rheumatoid arthritis, celiac disease, atherosclerotic plaques and chronic renal failure.

Application Details

Application Notes: WB 1:300-5000
ELISA 1:500-1000
FCM 1:20-100
IHC-P 1:200-400
IHC-F 1:100-500
IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: 4 °C,-20 °C

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months

Publications

Product cited in:

Li, Du, Yuan, Han, Dong, Chen, Wu, Zhang, Xu, Han, Zhang, Xia: "Hepatic hypoxia-inducible factors inhibit PPAR α expression to exacerbate acetaminophen induced oxidative stress and hepatotoxicity." in: **Free radical biology & medicine**, Vol. 110, pp. 102-116, (2017) ([PubMed](#)).

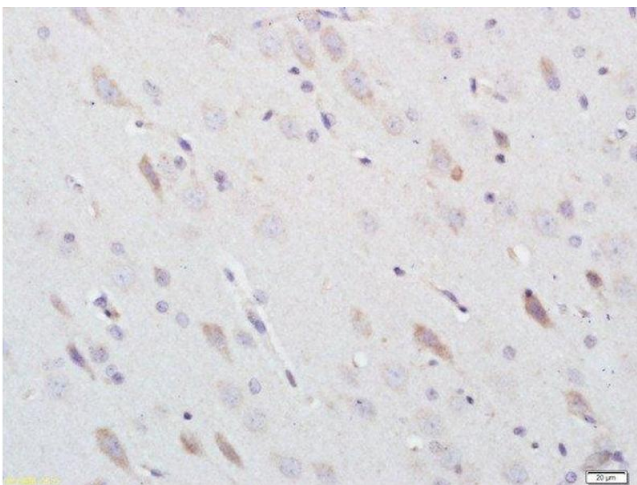
Zhang, Song, Pang, Zhang, Wan, Yuan, Wu, Liu: "Hydrogen-rich water protects against acetaminophen-induced hepatotoxicity in mice." in: **World journal of gastroenterology : WJG**, Vol. 21, Issue 14, pp. 4195-209, (2015) ([PubMed](#)).

Chen, Kan: "Down-regulation of superoxide dismutase 1 by PMA is involved in cell fate determination and mediated via protein kinase D2 in myeloid leukemia cells." in: **Biochimica et biophysica acta**, Vol. 1853, Issue 10 Pt A, pp. 2662-75, (2015) ([PubMed](#)).

Wang, Su, Wang, Zhang, Zhang, Niu, Guo, Li, Jiang, Liu, Guo: "Tert-butylhydroquinone ameliorates doxorubicin-induced cardiotoxicity by activating Nrf2 and inducing the expression of its target genes." in: **American journal of translational research**, Vol. 7, Issue 10, pp. 1724-35, (2015) ([PubMed](#)).

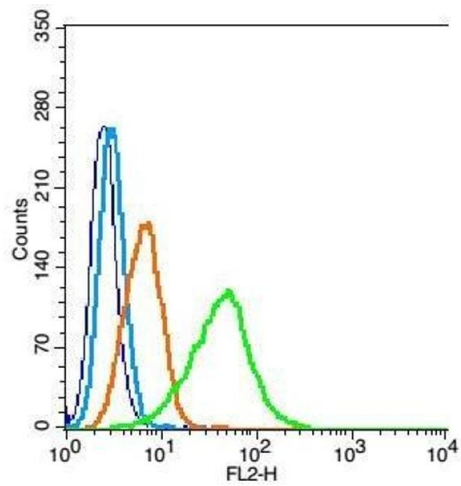
Vendrov, Vendrov, Smith, Yuan, Sumida, Robidoux, Runge, Madamanchi: "NOX4 NADPH Oxidase-Dependent Mitochondrial Oxidative Stress in Aging-Associated Cardiovascular Disease." in: **Antioxidants & redox signaling**, (2015) ([PubMed](#)).

Images



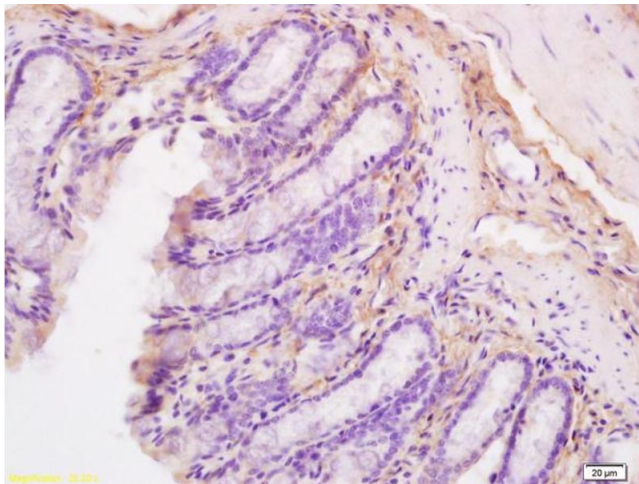
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Paraformaldehyde-fixed, paraffin embedded rat brain, Antigen retrieval by boiling in sodium citrate buffer (pH6) for 15min, Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes, Blocking buffer (normal goat serum) at 37°C for 20min, Antibody incubation with Nitrotyrosine Polyclonal Antibody, Unconjugated at 1:200 overnight at 4°C, followed by a conjugated secondary and DAB staining.



Flow Cytometry

Image 2. HeLa probed with Nitrotyrosine Polyclonal Antibody, Unconjugated at 1:100 for 30 minutes followed by incubation with a conjugated secondary (PE Cpnjugated) (green) for 30 minutes compared to control cells (blue), secondary only (light blue) and isotype control (orange).



Immunohistochemistry

Image 3. Formalin-fixed and paraffin embedded mouse intestine tissue labeled with Anti-Nitrotyrosine Polyclonal Antibody, Unconjugated (ABIN1385080) at 1:200, followed by conjugation to the secondary antibody and DAB staining