**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.

**REFERENCES**


**SOURCE**

Nitrotyrosine (39B6) is a mouse monoclonal antibody raised against 3-Nitrotyrosine.

**PRODUCT**

Each vial contains 200 µg IgG2a kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Nitrotyrosine (39B6) is available conjugated to agarose (sc-32757 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-32757 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; and to either phycoerythrin (sc-32757 PE), fluorescein (sc-32757 FITC), Alexa Fluor® 488 (sc-32757 AF488) or Alexa Fluor® 4887 (sc-32757 AF647), 200 µg/ml, for IF, IHC(P) and FCM.

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**APPLICATIONS**

Nitrotyrosine (39B6) is recommended for detection of nitrosylated tyrosine containing proteins by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein [1 ml of cell lysate]), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

**STORAGE**

Store at 4°C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**DATA**

![Nitrotyrosine (39B6): sc-32757 Western blot analysis of control BSA (A) and nitrated BSA (B).](image1)

![Nitrotyrosine (39B6): sc-32757 Immunoperoxidase staining of formalin-fixed, paraffin embedded brain section of listeria-infected rat, showing positive staining of macrophages. Kindly provided by Dr. Stephan Christen at University of Berne.](image2)

**SELECT PRODUCT CITATIONS**

6. Min, H.K., et al. 2015. Anthocyanin extracted from black soybean seed coats prevents autoimmune arthritis by suppressing the development of Th17 cells and synthesis of proinflammatory cytokines by such cells, via Inhibition of NF-κB. PLoS ONE 10: e0138201.

**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.