SANTA CRUZ BIOTECHNOLOGY, INC.

Nitrotyrosine (11C2): sc-101358



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

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- Girault, I., et al. 2001. Immunodetection of 3-Nitrotyrosine in the liver of zymosan-treated rats with a new monoclonal antibody: comparison to analysis by HPLC. Free Radic. Biol. Med. 31: 1375-1387.
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- 9. Lorch, S.A., et al. 2003. Plasma 3-Nitrotyrosine and outcome in neonates with severe bronchopulmonary dysplasia after inhaled nitric oxide. Free Radic. Biol. Med. 34: 1146-1152.

SOURCE

Nitrotyrosine (11C2) is a mouse monoclonal antibody raised against Nitrotyrosine.

PRODUCT

Each vial contains 500 μl culture supernatant containing lgG_1 with < 0.1% sodium azide.

PROTOCOLS

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

APPLICATIONS

Nitrotyrosine (11C2) is recommended for detection of free and bound Nitrotyrosine by Western Blotting (starting dilution to be determined by researcher, dilution range 1:10-1:200), immunofluorescence (starting dilution to be determined by researcher, dilution range 1:10-1:200), immunohistochemistry (including paraffin-embedded sections) (starting dilution to be determined by researcher, dilution range 1:10-1:200) and solid phase ELISA (starting dilution to be determined by researcher, dilution range 1:10-1:200); non cross-reactive with free or bound Tyrosine.

SELECT PRODUCT CITATIONS

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- Pandey, V.K., et al. 2014. G1-4A, a polysaccharide from *Tinospora cordifolia* induces peroxynitrite dependent killer dendritic cell (KDC) activity against tumor cells. Int. Immunopharmacol. 23: 480-488.
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- Zhang, Q.M., et al. 2018. Expression of lung surfactant proteins SP-B and SP-C and their regulatory factors in fetal lung of GDM rats. Curr. Med. Sci. 38: 847-852.
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STORAGE

For immediate and continuous use, store at 4° C for up to one month. For sporadic use, freeze in working aliquots in order to avoid repeated freeze/ thaw cycles. If turbidity is evident upon prolonged storage, clarify solution by centrifugation.

RESEARCH USE

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



See Nitrotyrosine (39B6): sc-32757 for Nitrotyrosine antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor[®] 488, 546, 594, 647, 680 and 790.