SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

Anti-DMPO Antibody [N1664A]

90 /100 1 Citatior
Powered by Bioz See mc

Mouse Anti-DMPO Monoclonal IgG1
Catalog No. SMC-189

StressMarq Biosciences INC.
Discovery through Partnership | Excellence through Quality

Product Name

DMPO Antibody

Description

Mouse Anti-DMPO Monoclonal IgG1

Species Reactivity

Species Independent

Applications

WB, IHC, ICC/IF, IP, ELISA, AM

Antibody Dilution

WB (1:1000), ICC/IF (1:100), ELISA (1:100), IP (25µg); optimal dilutions for assays should be determined by the user.

Host Species

Mouse

Immunogen

5,5-dimethyl-2-(8-octanoic acid)-1-pyrrolone-N-oxide conjugated to Ovalbumin

Concentration

1 mg/ml

Conjugates

APC, ATTO 390, ATTO 488, ATTO 594, Biotin, FITC, HRP, PerCP, RPE, Unconjugated

Field Of Use

Not for use in humans. Not for use in diagnostics or therapeutics. For in vitro research use only.

Properties

Storage Buffer

PBS pH7.4, 50% glycerol, 0.09% sodium azide *Storage buffer may change when conjugated

Storage Temperature

-20ºC, Conjugated antibodies should be stored according to the product label

Shipping Temperature

Blue Ice or 4ºC

Purification

Protein G Purified

Clonality

Monoclonal

Clone Number

N1664A

Isotype

IgG1

Specificity

Recognizes DMPO, DMPO-octanoic acid, DMPO-protein adducts and DMPO-DNA adducts. Does not cross react with non-adducted proteins or DNA.

Cite This Product

StressMarq Biosciences Cat# SMC-189, RRID: AB_10703686

Certificate Of Analysis

A 1:1000 dilution of SMC-189 was sufficient to detect the DMPO nitrone adducts of metmyoglobin when loaded at 100 ng/lane by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Biological Description

Alternative Names

5,5-dimethyl-2-(8-octanoic acid)-1-pyrroline N oxide Antibody, DMPO nitrone adduct Antibody, 55 dimethyl 1 pyrroline N oxide nitrone adduct antibody

Research Areas

Cancer, Cell Signaling, Metabolism, Mitochondrial Markers, Mitochondrial Metabolism, Oxidative Stress, Redox Metabolism

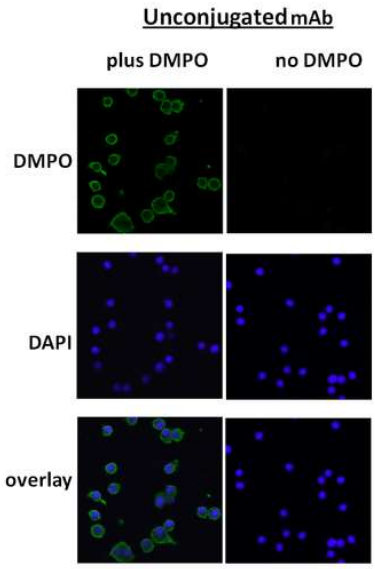
Scientific Background

The formation of free radicals and other highly reactive oxygen species has been implicated in the pathogenesis of many disease states (1). The ability to identify these species is crucial, and spin trapping has accomplished this goal. DMPO (5,5-dimethyl-1-pyrroline N-oxide) is one of the least toxic to cells and animals, and possesses convenient pharmacokinetics (uptake, distribution, metabolism and excretion) in biological systems (2-6). Recent studies have determined that nitric oxide may substantially affect the quantitative determination of DMPO adducts, and therefore extra caution is required when studying generation of these species in the presence of nitric oxide or its radicals (1). DMPO adducts can be generated with protein and DNA radicals (7).

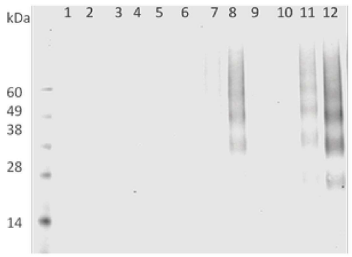
References

1. Reszka K.J., et al. (2006) Nitric Oxide 15: 133-141.
2. Ramirez D.C., Gomez-Mejiba S.E., and Mason R.P. (2007) Nat Protoc. 2(3): 512-522.
3. Khan N., et al. (2003) Free Radic. Biol. Med 34:1473–1481.
4. Haseloff R.F., et al. (1997) FEBS Lett 418:73–75.
5. Schaefer C.F., Janzen E.G., West M.S., Poyer J.L., and Kosanke S.D. (1996) Free Radic. Biol. Med 21:427–436.
6. Anzai K., et al. (2003) Arch. Biochem. Biophys 415:251–256.
7. Free Radic Biol Med. (2009) April 1; 46(7): 853–865. doi:10.1016/j.freeradbiomed.2008.12.020.
8. Chatterjee S., et al. (2009) Free Radic. Med.and Biol. 46: 454-461.

Product Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-DMPO Monoclonal Antibody, Clone N1664A (SMC-189). Tissue: macrophage cell line (Raw 264.7). Species: Mouse. Primary Antibody: Mouse Anti-DMPO Monoclonal Antibody (SMC-189) at 1:100. Secondary Antibody: Alexa Fluor 488 Goat Anti-Mouse (green) at 1:1000. Counterstain: DAPI (blue) nuclear stain.



Western Blot analysis of Human HL 60 clone 15 eosinophils lysates showing detection of DMPO protein using Mouse Anti-DMPO Monoclonal Antibody, Clone N1664A (SMC-189). Primary Antibody: Mouse Anti-DMPO Monoclonal Antibody (SMC-189) at 1:200.

Product Citations

90/100 | 1 CITATIONS

Mechanistic Insights into Inorganic Nitrite-Mediated Vasodilation of Isolated Aortic Rings under Oxidat
Paul Stamm, Sanela Kalinovic, ..., Pietro Scicchitano

Biomedicines | 2022 Mar 21 | PubMed ID: 35327532 | Read Article

".. were converted to stable thionitrone products using DMPO [ ].. Protein–DMPO adducts, representing the S-DMPO-specific **mouse monoclonal antibody** (1:1000, **Stress Marq Biosciences**, Victoria, BC, Canada) accor (GAM-POX, 1:2000, Cell Signaling, Danvers, .." *More*... | Share Article

- Results per page:
- 5

Reviews

Based on validation through cited publications.

★★★★★

StressMarq Biosciences
January 17, 2017: