

ARG20538 anti-DMPO Nitron Adduct antibody [N166A4]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [N1664A] recognizes DMPO Nitron Adduct
Tested Reactivity	Other
Tested Application	ELISA, ICC/IF, IHC-P, IP, WB
Specificity	Recognizes DMPO, DMPO-octanoic acid, DMPO-protein adducts and DMPO-DNA adducts. Does not cross react with non-adducted proteins or DNA.
Host	Mouse
Clonality	Monoclonal
Clone	N1664A
Isotype	IgG1
Target Name	DMPO Nitron Adduct
Immunogen	5,5-dimethyl-2-(8-octanoic acid)-1-pyrrolone-N-oxide conjugated to Ovalbumin
Conjugation	Un-conjugated

Application Instructions

Application table	Application	Dilution
	ELISA	1:100
	ICC/IF	1:100
	IHC-P	1:100
	IP	25 µg/ml
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 50% Glycerol and 0.09% Sodium azide
Preservative	0.09% Sodium azide
Stabilizer	50% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw

cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

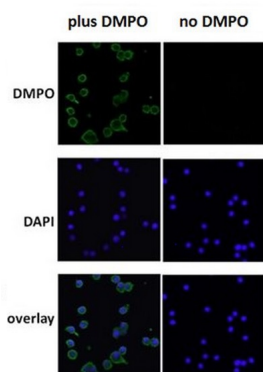
Background

The formation of free radicals and other highly reactive oxygen species has been implicated in the pathogenesis of many disease states. 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. 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. DMPO adducts can be generated with protein and DNA radicals.

Research Area

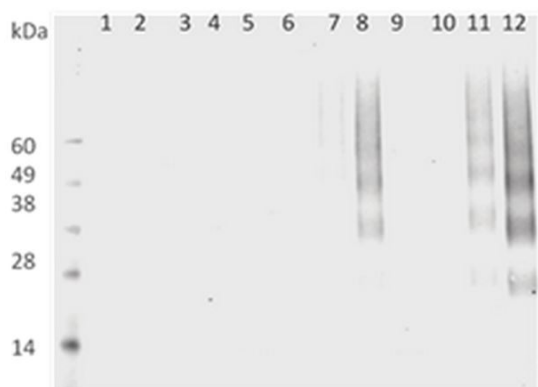
Cell Biology and Cellular Response antibody; Metabolism antibody; Signaling Transduction antibody

Images



ARG20538 anti-DMPO Nitron Adduct antibody [N166A4] ICC/IF image

Immunofluorescence: Mouse macrophage cell lines stained with ARG20538 anti-DMPO Nitron Adduct antibody [N166A4] at 10 ug/ml dilution.



ARG20538 anti-DMPO Nitron Adduct antibody [N166A4] WB image

Western blot: 1) 10 uM Hb (Hemoglobin), 2) 10 uM Hb + 100 uM HOCl, 3) 10 uM Hb + 500 uM HOCl, 4) 10 uM Hb + 1000 uM HOCl, 5)-8) as above with 20 mM DMPO, 9)-12) as above with 100 mM DMPO. Staining with ARG20538 anti-DMPO Nitron Adduct antibody [N166A4].