# Mouse DMPO Monoclonal Antibody | anti-dmpO antibody

DMPO Antibody: ATTO 488

| CATALOG # | HOST | REACTIVITY | APPLICATIONS |
|---|---|---|---|
| **AAA102912** | **Mouse** | **Species Independent** | **Immunoprecipitation, Immunofluorescence, Immunocytochemistry, Western Blot, ELISA** |

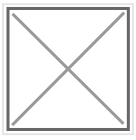
## PRODUCT SYNONYMS

DMPO; Monoclonal Antibody; DMPO Antibody: ATTO 488; 5;5-dimethyl-2-(8-octanoic acid)-1-pyrroline N oxide; DMPO nitrone adduct; anti-dmpO antibody

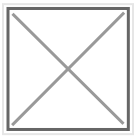
## PRODUCT SPECIFICATIONS

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|---|---|
| **Host** | Mouse |
| **Reactivity** | Species Independent |
| **Clonality** | Monoclonal |
| **Isotype** | IgG1 |
| **Clone Number** | N1664A |
| **Form/Format** | Protein G Purified |
| **Concentration** | 1mg/mL (varies by lot) |
| **Sequence Length** | 119 |
| **Applicable Applications for anti-dmpO antibody** | IP (Immunoprecipitation), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA, Immunospintrapping |
| **Conjugate** | ATTO 488 |
| **Storage Buffer** | TBS pH7.4, 50% glycerol, 0.05% sodium azide |
| **Preparation and Storage** | -20 degree C |

## IMAGES



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



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

## ADDITIONAL INFORMATION

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| **Related Product Information for anti-dmpO antibody** | **Background Info:** Detects ~90kDa. Recognzies DMPO, DMPO-octanoic acid, DMPO-protein adducts and DMPO-DNA adducts. Does not cross react with non-adducted proteins or DNA.<br><br>**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). |
| **Product Categories/Family for anti-dmpO antibody** | Oxidative Stress |
| **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., Ehrenshaft, M., Bhattacharjee,S., Derterding, L.J., Bonini, M.G., Corbett, J., Kadiiska, M.B., Tomer K.B. and Mason, R.P. 2009 Free Radic. Med. and Biol. 46:454-461. |

## NCBI AND UNIPROT INFORMATION

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| **NCBI GI #** | 51242284 |
| **Molecular Weight** | 13,207 Da |
| **NCBI Official Full Name** | DmpO |
| **UniProt Protein Name** | DmpO |
| **UniProt Gene Name** | **dmpO** |
| **UniProt Entry Name** | Q68J58_PSEPU |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

**AAA Biotech** | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/monoclonal/dmpo-antibody-clone-n1664a-immunoprecipitation-immunofluorescence-immunocytochemistry-western-blot-elisa/102912