

Product datasheet

Anti-DMPO Nitron Adduct antibody [N1664A] (Biotin) ab110430

[1 References](#) [2 Images](#)

Overview

Product name	Anti-DMPO Nitron Adduct antibody [N1664A] (Biotin)
Description	Mouse monoclonal [N1664A] to DMPO Nitron Adduct (Biotin)
Host species	Mouse
Conjugation	Biotin
Specificity	Recognizes DMPO, DMPO-octanoic acid, DMPO-protein adducts and DMPO-DNA adducts. Does not cross-react with non-adducted proteins or DNA.
Tested applications	Suitable for: IP, ICC/IF, WB
Species reactivity	Reacts with: Species independent
Immunogen	Chemical/ Small Molecule corresponding to DMPO Nitron Adduct conjugated to ovalbumin. 5,5-dimethyl-2-(8-octanoic acid)-1-pyrrolone-N-oxide conjugated to Ovalbumin.
Positive control	ICC/IF: RAW 264.7 cells.
General notes	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.09% Sodium azide Constituents: PBS, 50% Glycerol
Purity	Protein G purified
Clonality	Monoclonal
Clone number	N1664A
Isotype	IgG1

Applications

Our [Abpromise guarantee](#) covers the use of **ab110430** in the following tested applications.

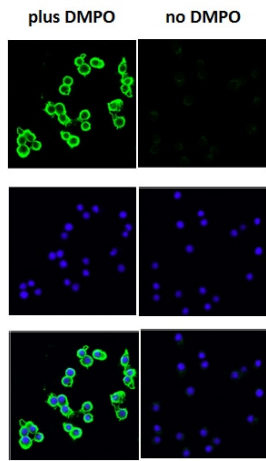
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration.

Target

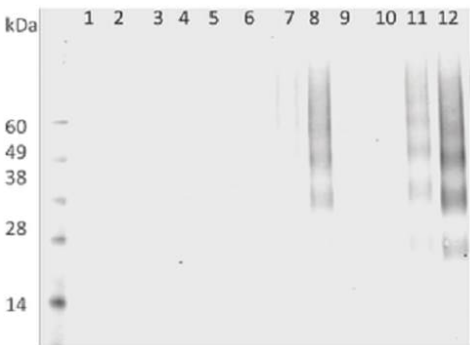
Relevance For measurement of protein radicals; some proteins with endogenous peroxidase activity are especially susceptible to forming DMPO adducts.

Images



Immunocytochemistry/ Immunofluorescence - Anti-DMPO Nitro Adduct antibody [N1664A] (Biotin) (ab110430)

RAW 264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) cells stained for DMPO Nitro Adduct using the unconjugated version of ab110430 at a dilution of 1/100 in ICC/IF. Secondary used is an Alexa-Fluor[®]488-conjugated Goat Anti-Mouse IgG (Green). Counterstain: DAPI (Blue) nuclear stain.



Western blot - Anti-DMPO Nitro Adduct antibody [N1664A] (Biotin) (ab110430)

All lanes : Unconjugated version of ab110430 at 1/200 dilution

- Lane 1 :** 10 um hemoglobin
- Lane 2 :** 10 um hemoglobin + 100 uM HOCl
- Lane 3 :** 10 um hemoglobin + 500 uM HOCl
- Lane 4 :** 10 um hemoglobin + 1000 uM HOCl
- Lane 5 :** 10 um hemoglobin + 20 mM DMPO
- Lane 6 :** 10 um hemoglobin + 100 uM HOCl + 20 mM DMPO
- Lane 7 :** 10 um hemoglobin + 500 uM HOCl + 20 mM DMPO
- Lane 8 :** 10 um hemoglobin + 1000 uM HOCl + 20 mM DMPO
- Lane 9 :** 10 um hemoglobin + 100 mM DMPO
- Lane 10 :** 10 um hemoglobin + 100 uM HOCl + 100 mM DMPO
- Lane 11 :** 10 um hemoglobin + 500 uM HOCl + 100 mM DMPO
- Lane 12 :** 10 um hemoglobin + 1000 uM HOCl + 100 mM DMPO

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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