

Product Datasheet

Methionine Sulfoxide Antibody NBP1-06707SS

Unit Size: 0.025 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

www.novusbio.com



support@novusbio.com

Reviews: 2 Publications: 5

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP1-06707

Updated 6/15/2014 v.20.1

NBP1-06707SS

Methionine Sulfoxide Antibody

Product Information

| | |
|----------------------|--|
| Unit Size | 0.025 ml |
| Concentration | This product is unpurified. The exact concentration of antibody is not quantifiable. |
| Storage | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles. |
| Clonality | Polyclonal |
| Preservative | 0.05% Sodium Azide |
| Purity | Whole antisera |

Product Description

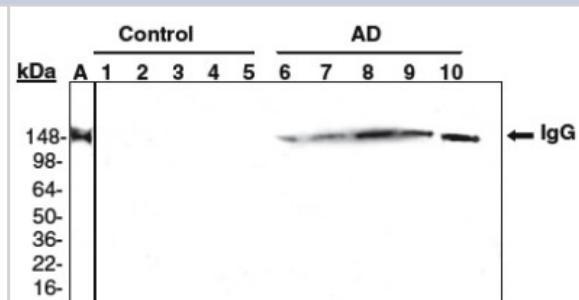
| | |
|--------------------------------|---|
| Host | Rabbit |
| Species | Human, Mouse, Rat, Yeast |
| Species Reactivity | Human, mouse, rat and yeast. |
| Specificity/Sensitivity | Specific for all methionine sulfoxide containing proteins and peptides. |
| Immunogen | Oxidized methionine rich zein protein from Zea mays |

Product Application Details

| | |
|------------------------------|---|
| Applications | Western Blot, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin |
| Recommended Dilutions | Immunocytochemistry/Immunofluorescence, Immunohistochemistry 1:100, Immunohistochemistry-Paraffin 1:100, Western Blot 1:100-1:2000 |
| Application Notes | This antibody is useful for Western blot. The size of the band is dependent on the size of the protein that has undergone methionine oxidation. It has also been used for immunohistochemistry on paraffin sections (rat brain with heat mediated antigen retrieval). Immunocytochemistry/Immunofluorescence was reported in scientific literature. |

Images

Western Blot: Methionine Sulfoxide Antibody [NBP1-06707] - Serums of Alzheimer's disease human subjects (1?5, samples from control human subjects; 6-10, samples of AD patients; all samples are aged matched (70-80 years old). A. A representative sample of human serum probed with primary rabbit anti-human IgG antibodies. Data courtesy of Dr. Moskovitz (1).



Publications

Doronina VA, Staniforth GL. Oxidative stress conditions increase the frequency of de novo formation of the yeast [PSI⁺] prion Molecular Microbiology. 2015 (WB, Yeast)

Details:

Methionine Sulfoxide antibody used in WB assay for the detection of oxidation of Sup35 translation termination factor in experiments involving the de novo formation of the yeast [PSI⁺] prion. Fig 1B shows the blot of alpha MetO / Sup35 oxidation in [PIN⁺] [psi⁺] control strain containing the Sup35NM-GFP plasmid following growth in the presence of 100 uM H₂O₂ or 100 uM menadione for 16 hours. Antibody also used for detecting the basal levels of MetO in WT and antioxidant mutants namely sod1, sod2, sod1 sod2, ctt1, ctt1 cta1 and tsa1 tsa2 mutants (Fig. 3A), and in methionine sulphoxide reductase/MSRA overexpressing mutants (Fig 3B).

Callizot N, Combes M, Steinschneider R, Poindron P. Operational dissection of beta-amyloid cytopathic effects on cultured neurons. J Neurosci Res 2013 May [PMID: 23404368] (ICC/IF)

Nakaso K, Tajima N, Ito S et al. Dopamine-Mediated Oxidation of Methionine 127 in alpha-Synuclein Causes Cytotoxicity and Oligomerization of alpha-Synuclein. PLoS One 2013 [PMID: 23457458] (WB, Rat)

Salama SA, Snapka RM. Amino Acid chloramine damage to proliferating cell nuclear antigen in Mammalian cells In Vivo 2012 Jul [PMID: 22773562]

Sideri TC, Koloteva-Levine N, Tuite MF, Grant CM. Methionine oxidation of Sup35 induces formation of the [PSI⁺] prion in a yeast peroxiredoxin mutant. J Biol Chem. 2011 Aug 9. [PMID: 21832086]



Novus Biologicals USA

8100 Southpark Way, A-8
Littleton, CO 80120
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
novus@novusbio.com

Novus Biologicals Canada

461 North Service Road West, Unit B37
Oakville, ON L6M 2V5
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada@novusbio.com

Novus Biologicals Europe

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: technical@novusbio.com
Orders: orders@novusbio.com
General: novus@novusbio.com

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis.
Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our guarantee, please visit www.novusbio.com/guarantee.