

Monoclonal Anti-Human Nucleotide-Binding Oligomerization Domain Protein 1 (hNod1), Clone U54.M.hNod1.3.1 (Immunoglobulin G, Mouse)

Catalog No. NR-831

For research use only. Not for human use.

This preparation is being provided without functional confirmation. Please read the Certificate of Analysis carefully to determine whether or not this product is acceptable for your intended use.

Contributor:

Dr. Richard Ulevitch, Department of Immunology, Scripps Research Institute, La Jolla, CA

Product Description:

Mouse monoclonal antibody specific to human nucleotide-binding oligomerization domain protein 1 (hNod1) was purified from mouse ascites by protein A affinity chromatography.

Note: The antibody class of the hybridoma from which NR-831 was derived has been reported to be IgG1k. Results from BEI Resources indicate that the antibody class of the hybridoma is IgG2bk. The purified mouse ascites preparation (NR-831, lot 4980871) contains IgG2bk, IgG1k and IgG2ak.

Material Provided:

Each vial of NR-831 contains approximately 1 mg of purified monoclonal antibody in 0.02 M phosphate buffer (pH 7.2) containing 0.15 M sodium chloride and 0.02% (w/v) sodium azide. The concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

Packaging/Storage:

NR-831 was packaged aseptically in cryovials and is provided frozen. NR-831 may be stored undiluted at 4°C for several weeks. It should not be diluted until immediately prior to use. For long-term storage, NR-831 should be aliquoted and stored at -20°C or colder. Freeze-thaw cycles should be avoided.

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed.

Washington, DC: U.S. Government Printing Office, 2007; see www.cdc.gov/od/ohs/biosfty/bmb15/bmb15toc.htm.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Monoclonal Anti-Human Nucleotide-Binding Oligomerization Domain Protein 1 (hNod1), Clone U54.M.hNod1.3.1 (Immunoglobulin G, Mouse), NR-831."

Disclaimers:

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government make any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:

This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

References:

1. Rescigno, M., and E. E. Nieuwenhuis. "The Role of Altered Microbial Signaling Via Mutant NODs in Intestinal Inflammation." Curr. Opin. Gastroenterol. 23 (2007): 21–26. PubMed: 17133080.
2. Opitz, B., et al. "Nucleotide-Binding Oligomerization Domain Proteins are Innate Immune Receptors for Internalized *Streptococcus pneumoniae*." J. Biol. Chem. 279 (2004): 36426–36432. PubMed: 15215247

3. Chamaillard, M., et al. "An Essential Role for NOD1 in Host Recognition of Bacterial Peptidoglycan Containing Diaminopimelic Acid." Nat. Immunol. 4 (2003): 702–707. PubMed: 12796777.
4. Boughan, P. K., et al. "Nucleotide-Binding Oligomerization Domain-1 and Epidermal Growth Factor Receptor: Critical Regulators of Beta-Defensins During *Helicobacter pylori* Infection." J. Biol. Chem. 281 (2006): 11637–11648. PubMed: 16513653.

ATCC® is a trademark of the American Type Culture Collection.