

Monoclonal Anti-Human Nucleotide-Binding Oligomerization Domain Protein 1 (hNod1), Clone U54.M.hNod1.1.1 (Immunoglobulin G, Mouse)

Catalog No. NR-829

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:

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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-829 was derived has been reported to be IgG1 κ . Results from BEI Resources indicate that the antibody class of the hybridoma is IgG2 $\alpha\kappa$. The purified mouse ascites preparation (NR-829, lot 4980869) contains IgG2 $\alpha\kappa$ and IgG1 κ .

Material Provided:

Each vial of NR-829 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-829 was packaged aseptically in cryovials and is provided frozen. NR-829 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-829 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.hNod1.1.1 (Immunoglobulin G, Mouse), NR-829."

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References:

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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.

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