Monoclonal Anti-*Francisella tularensis* Intracellular Growth Locus, Subunit C (IglC) Protein, Clone IglC1 (produced *in vitro*)

Catalog No. NR-3196

For research use only. Not for human use.

Contributor:
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Product Description:
Antibody Class: IgG1
Mouse monoclonal antibody specific to a histidine-tagged recombinant form of the intracellular growth locus, subunit C protein (IglC) of *Francisella tularensis* was produced *in vitro*.

Two large convergently transcribed operons, *pdpDiglABCD* and *pdpA*, are encoded by the *Francisella* pathogenicity island, which harbor genes necessary for intramacrophage growth and virulence in mice.[1] IglC is an approximately 23 kDa protein encoded by the *pdpD-iglABCD* operon, which is necessary for both intraamoebae and intramacrophage survival and also virulence in mice.[2,3]

Material Provided:
Each vial contains approximately 1 mL of NR-3196 in Dulbecco's Modified Eagle's Medium supplemented with 5% fetal bovine serum. The estimated concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

Packaging/Storage:
NR-3196 was packaged aseptically in screw capped plastic cryovials. The product is provided frozen and should be stored at -20°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

Functional Activity:
NR-3196 has been shown to be specific for the IglC protein of wild-type *Francisella tularensis* using Western blot analysis.

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/bmbl5/bmbl5toc.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-*Francisella tularensis* Intracellular Growth Locus, Subunit C (IglC) Protein, Clone IglC1 (produced *in vitro*), NR-3196."

Disclaimers:
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References:
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2. Nano, F. E., et al. "A *Francisella tularensis* Pathogenicity Island Required for Intramacrophage Growth." J. Bacteriol. 186 (2004): 6430–6436. PubMed: 15375123.
3. Lauriano, C. M., et al. "MglA Regulates Transcription of Virulence Factors Necessary for *Francisella tularensis* Intraamoebae and Intramacrophage Survival." Proc. Natl.

Acad. Sci. U.S.A. 101 (2004): 4246–4249. PubMed: 15010524.

4. Gray, C. G., S. C. Cowley, K. K. Cheung, and F. E. Nano. "The Identification of Five Genetic Loci of *Francisella novicida* Associated with Intracellular Growth." FEMS Microbiol. Lett. 215 (2002): 53–56. PubMed: 12393200.

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