

**Monoclonal Anti-*Francisella tularensis*
Intracellular Growth Locus, Subunit B
(IgIB) Protein, Clone IgIB1 (produced *in vitro*)****Catalog No. NR-3195****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 B protein (IgIB) of *Francisella tularensis* was produced *in vitro*.

Two large convergently transcribed operons, *pdpD**iglABCD* and *pdpA*, are encoded by the *Francisella* pathogenicity island, which harbor genes necessary for intramacrophage growth and virulence in mice.¹ IgIB is an approximately 59 kDa protein encoded by the *pdpD-iglABCD* operon, which interacts with the subunit A protein (IgIA) in the cytoplasm.^{2,3}

Material Provided:

Each vial contains approximately 1 mL of NR-3195 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-3195 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-3195 has been shown to be specific for the IgIB 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 B (IgIB) Protein, Clone IgIB1 (produced *in vitro*), NR-3195."

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References:

1. Barker, J. R. and K. E. Klose. "Molecular and Genetic Basis of Pathogenesis in *Francisella tularensis*." Ann. N. Y. Acad. Sci. Mar 29 2007 (Epub ahead of print). PubMed: 17395737.
2. Nano, F. E., et al. "A *Francisella tularensis* Pathogenicity Island Required for Intramacrophage Growth." J. Bacteriol. 186 (2004): 6430–6436. PubMed: 15375123.
3. de Bruin, O. M., J. S. Ludu, and F. E. Nano. "The *Francisella* Pathogenicity Island Protein IgIA Localizes to the Bacterial Cytoplasm and Is Needed for Intracellular

- Growth." BMC Microbiol. 7 (2007): 1–10. PubMed: 17233889.
4. Nano, F. E., et al. "A *Francisella tularensis* Pathogenicity Island Required for Intramacrophage Growth." J. Bacteriol. 186 (2004): 6430–6436. PubMed: 15375123.
 5. 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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