Monoclonal Anti-*Francisella tularensis* Intracellular Growth Locus, Subunit D (IglD) Protein, Clone IglD1 (produced *in vitro*)

Catalog No. NR-9362

For research use only. Not for human use.

Contributor:
Francis E. Nano, Ph.D., Professor, Department of Biochemistry and Microbiology, University of Victoria, Victoria, British Columbia, Canada

Manufacturer:
ImmunoPrecise Antibodies, Ltd.

Product Description:
Antibody Class: IgG1
Mouse monoclonal antibody specific to a histidine-tagged recombinant form of the intracellular growth locus, subunit D protein (IglD) 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.[1,2] IglD is an approximately 46 kDa protein encoded by the *pdpD-iglABCD* operon, which is essential for intracellular replication in primary human monocyte-derived macrophages.[3]

Material Provided:
Each vial contains approximately 1 mL of NR-9362 in Dulbecco's Modified Eagle's Medium supplemented with 5% fetal bovine serum.

Packaging/Storage:
NR-9362 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-9362 has been shown to be specific for the IglD protein of wild-type *Francisella tularensis* using western blot analysis.

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-*Francisella tularensis* Intracellular Growth Locus, Subunit D (IglD) Protein, Clone IglD1 (produced *in vitro*), NR-9362."

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, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers:
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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.

BEI Resources
www.beiresources.org

E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898

3. Santic M., et al. "A *Francisella tularensis* Pathogenicity Island Protein Essential for Bacterial Proliferation within the Host Cytosol." Cell Microbiol. 9 (2007): 2391–2403. PubMed: 17233889.

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Tel: 800-359-7370
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