

**Monoclonal Anti-*Francisella tularensis* Lipoprotein A (LpnA/Tul4), Clone 164.75 (culture supernatant)**

**Catalog No. NR-29019**

**For research use only. Not for human use.**

**Contributor:**

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**Manufacturer:**

BEI Resources

**Product Description:**

Antibody Class: IgG1k<sup>1</sup>

Mouse monoclonal antibody prepared against lipoprotein A (LpnA, also called Tul4) of *Francisella tularensis* (*F. tularensis*) was produced *in vitro* from clone 164.75. The B cell hybridoma was generated by the fusion of Sp2/0 mouse myeloma cells with splenocytes from a C3H mouse immunized by intradermal infection with a sublethal dose of the live vaccine strain (LVS) of *F. tularensis* subsp. *holarctica* followed by intraperitoneal injection with *F. tularensis* subsp. *holarctica* LVS sonicate.<sup>2</sup>

LpnA/Tul4 is a well-characterized 17 kDa lipoprotein that is conserved among strains of *F. tularensis*<sup>3</sup> and has been shown to potently stimulate primary human macrophages in a Toll-like receptor 2-dependent manner.<sup>4</sup>

**Material Provided:**

Each vial of NR-29019 contains approximately 1 mL of hybridoma culture conditioned supernatant.

**Packaging/Storage:**

NR-29019 was packaged aseptically in screw-capped plastic vials and is provided frozen on dry ice. The product should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

**Functional Activity:**

NR-29019 reacts with the LpnA/Tul4 of *F. tularensis* subsp. *holarctica*, LVS in western blot. See Certificate of Analysis for details. The antibody has been shown to function in immunofluorescence assays, immunoprecipitation, and ELISA, and to react with LpnA/Tul4 from both *F. tularensis* subsp. *holarctica*, LVS and *F. tularensis* subsp. *tularensis*, Schu S4 in western blot.<sup>1,2</sup>

**Citation:**

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-*Francisella tularensis* Lipoprotein A (LpnA/Tul4), Clone 164.75 (culture supernatant), NR-29019.”

**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 <http://www.cdc.gov/biosafety/publications/bmb15.htm>.

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**References:**

1. Savitt, A. G., personal communication (note that the isotype of this antibody is erroneously reported as IgG3 in reference 2).

2. Savitt, A. G., et al. "*Francisella tularensis* Infection-Derived Monoclonal Antibodies Provide Detection, Protection, and Therapy." Clin. Vaccine Immunol. 16 (2009): 414-422. PubMed: 19176692.
3. Sjöstedt, A., et al. "The 17 kDa Lipoprotein and Encoding Gene of *Francisella tularensis* LVS are Conserved in Strains of *Francisella tularensis*." Microb. Pathog. 13 (1992): 243-249. PubMed: 1291846.
4. Forestal, C. A., et al. "A Conserved and Immunodominant Lipoprotein of *Francisella tularensis* is Proinflammatory but not Essential for Virulence." Microb. Pathog. 44 (2008): 512-523. PubMed: 18304778.

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