

Monoclonal Anti-*Francisella tularensis* Lipoprotein A (LpnA/Tul4), Clone 164.75 (produced *in vitro*)

Catalog No. NR-50326

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Antibody Class: IgG1k¹

Mouse monoclonal antibody prepared against lipoprotein A (LpnA/Tul4) of *Francisella tularensis* (*F. tularensis*) was purified from clone 164.75 hybridoma supernatant by protein G affinity chromatography. 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.²

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

Material Provided:

Each vial of NR-50326 contains approximately 100 µL of purified antibody in phosphate-buffered saline, pH 7.4. The concentration, expressed as mg per mL, is shown on the Certificate of Analysis for each lot.

Packaging/Storage:

NR-50326 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-50326 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.^{1,2}

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 (produced *in vitro*), NR-50326.”

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/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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