

Technical Bulletin

Anti-Salmonella enterica serotype enteritidis LPS antibody, Mouse monoclonal

Clone SLP-32, purified from hybridoma cell

SAB4200882

Product Description

Monoclonal Anti-Salmonella enterica serotype enteritidis LPS antibody (mouse IgM isotype) is derived from the SLP-32 hybridoma, produced by the fusion of mouse myeloma cells and splenocytes from a mouse immunized with Salmonella enterica serotype enteritidis LPS (Cat. No. L6011) as immunogen. The isotype is determined by ELISA using Mouse Monoclonal Antibody Isotyping Reagents (Cat. No. ISO-2). The antibody is purified from culture supernatant of hybridoma cells.

Monoclonal Anti-Salmonella enterica serotype enteritidis LPS antibody specifically recognizes LPS of Salmonella enterica and has no cross reactivity with Pseudomonas aeruginosa- LPS or with Porphyromonas gingivalis- LPS. The antibody may be used in various immunochemical techniques including immunoblotting and ELISA.

Salmonella is a genus of Gram-negative, facultative anaerobe, motile bacillus composed of 2579 different serotypes. *Salmonella* is considered to be one of the most studied microorganisms as a worldwide foodborne pathogen and a major cause of gastrointestinal human infections.¹

S. enterica is a subspecies of *S. enterica*, that includes 1531 serotypes, among them *S. typhimurium* and *S. enteritidis*, responsible for common human illness and thus focus of extensive research.¹

Salmonella enterica serotype Enteritidis is known to be one of the most common causes of food-borne salmonellosis worldwide.² Historically, *S. Enteritidis* shows susceptibility to most antibiotics, unlike more common serotypes, such as *Salmonella enterica* serotypes Typhimurium, Virchow, Newport, and Hadar, in which resistance to a wide range of antibiotics is common.^{3,4} A number of reports point on an increasing prevalence of nalidixic acid resistance among nontyphoidal *Salmonella* isolates, in particular *S. Enteritidis*.^{5,6,7}

Reagent

Supplied as a solution in 0.01 M phosphate buffered saline pH 7.4, containing 15 mM sodium azide as a preservative.

Antibody Concentration: ~ 1.0 mg/mL

Precautions and Disclaimer

Unless otherwise stated in our catalog our products are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or application to humans or animals.

Storage/Stability

For continuous use, store at 2-8 °C for up to one month. For extended storage, freeze in working aliquots. Repeated freezing and thawing is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile

Immunoblotting

A working concentration of 0.1-0.2 µg/mL is recommended using Salmonella enterica serotype enteritidis LPS (Cat. No. L6011).

ELISA

A working concentration of 2.5-5.0 µg/mL is recommended using Salmonella enterica serotype enteritidis LPS (Cat. No. L6011) for coating.

Note: In order to obtain best results in different techniques and preparations we recommend determining optimal working concentration by titration test.

References

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3. Frost JA., et al., *Journal of Antimicrobial Chemotherapy* **37.1**, 85-91 (1996).
4. Mølbak K., et al., *Emerging infectious diseases* **8.5**, 514 (2002).
5. Carrique-Mas JJ., et al., *Veterinary Record* **162.17**, 541-546 (2008).
6. Meakins S., et al., *Microbial Drug Resistance* **14.1**, 31-35 (2008).
7. Stevenson JE., et al., *Antimicrobial agents and chemotherapy* **51.1**, 195-197 (2007).

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