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12-8264: Anti-Shigella flexneri 2a, LPS (SHIG-3914)

Clonality : Monoclonal
Clone Name : SHIG-3914
Application : ELISA,IF
Isotype : Mouse IgG1

Description

Specificity: Anti-Shigella flexneri (Clone SHIG-3914) is specific for the LPS of Shigella flexneri 2a and displays no cross reactivity for Shigella flexneri 1a, 3a, 4a, 5a, 6, S. sonnei, S. dysenteriae, S. boydii, Citrobacter, Salmonella (mix) or E. coli (mix).
Background: Shigella flexneri serotype 2a is a specific strain of Shigella flexneri responsible for causing shigellosis, a prominent global gastrointestinal infection. Serotype 2a holds clinical importance due to its prevalence and virulence. Shigella flexneri 2a infections often lead to severe symptoms such as bloody diarrhea, abdominal cramps, and fever1. The lipopolysaccharides (LPS) on the bacterial cell surface play a pivotal role in its pathogenicity by contributing to adhesion, immune evasion, and triggering inflammatory responses in the host. The bacterium's ability to invade the colonic epithelium leads to localized inflammation and tissue damage, causing the characteristic symptoms of shigellosis. Recently, there have been reports of increased transmission of extensively drug-resistant (XDR) Shigella spp. through sexual activity2.

Product Info

Amount :	250µg
Purification :	Purity: ≥90% Preparation: This monoclonal antibody is purified by protein A chromatography or sequential differential precipitations.
Content :	Concentration: ≥1.0 mg/ml Formulation: Formulated in 0.01 M phosphate buffered saline, pH 7.2 and contains 0.1% sodium azide. Due to inherent biochemical properties of antibodies, certain products may be prone to precipitation over time. Precipitation may be removed by aseptic centrifugation and/or filtration.
Storage condition :	This purified antibody is stable when stored at 2-8°C. Do not freeze.

Application Note

ELISA: 1:20-1:200,IF: 1:10-1:50

For Research Use Only. Not for use in diagnostic/therapeutics procedures.