12-8212: Anti-E. coli, O157 (EHEC-0741)

Clonality :	Monoclonal
Clone Name :	EHEC-0741
Application :	ELISA,IF
Alternative Name :	Escherichia coli, EHEC, STEC
Isotype :	Mouse IgG1

Description

Specificity: Anti-E. coli (Clone EHEC-0741) is specific for the O-antigen of E. coli serotype O157.

Background: Enterohemorrhagic Escherichia coli (EHEC) is a subgroup of Escherichia coli bacteria known for causing foodborne illnesses with severe clinical implications. EHEC strains, notably serotype O157:H7, are responsible for outbreaks of hemolytic uremic syndrome (HUS), a condition characterized by hemolytic anemia, thrombocytopenia, and acute kidney injury. Infection typically results from consuming contaminated food, particularly undercooked ground beef, unpasteurized milk, and contaminated vegetables. EHEC produces Shiga toxins, contributing to the severe symptoms observed in infected individuals. Treatment is mainly supportive, as antibiotics might exacerbate toxin release; careful fluid and electrolyte management is essential, especially in patients with HUS. Preventive measures such as thorough cooking of food and practicing good hygiene are crucial in mitigating EHEC-related outbreaks and minimizing the impact of these infections.

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