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12-8342: Anti-Norovirus, Capsid (Clone NORO-310)-Purified No Carrier Protein

Clonality : Monoclonal
Clone Name : NORO-310

Description

Specificity: NORO-310 activity is directed against Norovirus GII.4 capsid P-domain.
Antigen Distribution: Norovirus infects and replicates in immune cells, including macrophages, dendritic cells, and B cells, as well as in enteroendocrine cells in the human gut.
Background: Norovirus is a highly contagious pathogen known for its ability to cause acute gastroenteritis, which is a major health concern worldwide1. The virus's low infectious dose means minor exposure can lead to infection. Prolonged shedding by hosts and environmental resilience further heighten transmission risks through prolonged surface contamination2. It is the leading cause of foodborne diseases, exclusively infecting humans3. Timely implementation of infection prevention measures is crucial for outbreak control2. Studies have found a variety of antibodies that have a broad reactivity for noroviruses, including single-chain antibodies4, monoclonal antibodies5, and a cross-reactive monoclonal antibody6. These antibodies have the potential to be used in diagnostic applications as they have been shown to detect norovirus antigens in clinical samples. Studies have also found that the reactivity of these antibodies can vary depending on the norovirus strain7. The NORO-310 clone is a type of human monoclonal IgG that has a wide range of cross-reactivity. It can neutralize both genogroup I and II noroviruses. This particular clone targets a highly conserved area in the P-domain of the GII.4 norovirus capsid, which suggests that it could have additional inhibitory properties8. This clone is part of a panel of antibodies that have been identified for their broad reactivity to noroviruses4. These findings suggest that the NORO- 310 clone can detect and treat a broad range of norovirus strains.

Product Info

Amount : 1.0 mg / 250µg

Purification : Purity: >=1.0 mg/ml
Preparation: Recombinant antibodies are manufactured in an animal free facility using only in vitro protein free cell culture techniques and are purified by a multi-step process including the use of protein A or G to assure extremely low levels of endotoxins, leachable protein A or aggregates.