

Product datasheet

Anti-Norovirus Capsid protein VP1 antibody [NVGC-01] ab272687

[1 Image](#)

Overview

Product name	Anti-Norovirus Capsid protein VP1 antibody [NVGC-01]
Description	Mouse monoclonal [NVGC-01] to Norovirus Capsid protein VP1
Host species	Mouse
Specificity	Reacts with Norovirus capsid proteins of both genogroup I and genogroup II.
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Recombinant fragment
Immunogen	Recombinant fragment corresponding to Human Norovirus Capsid protein VP1 aa 450-550. Corresponding to the protruding 1 (P1) subdomain expressed in E. coli. Database link: Q83884

 [Run BLAST with](#)

 [Run BLAST with](#)

Positive control	WB: Recombinant norovirus capsid protein of Genogroup I (Norwalk virus) and Genogroup II (Snow mountain virus)
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General notes

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 6.5 Constituents: PBS, 50% Glycerol (glycerin, glycerine)
	Filter sterilized
Purity	Protein A purified

Clonality	Monoclonal
Clone number	NVGC-01
Isotype	IgG1

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab272687 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

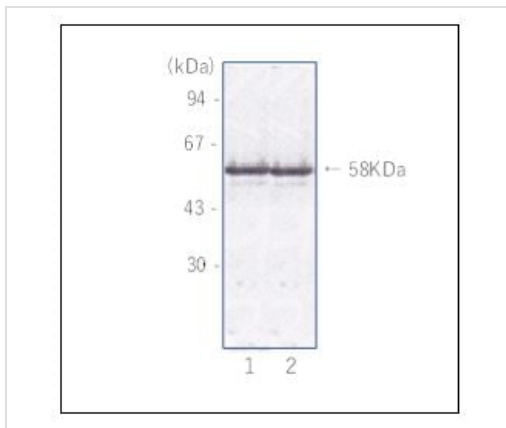
Application	Abreviews	Notes
WB		1/500 - 1/1000.

Target

Relevance

Norovirus is an RNA virus of the Caliciviridae taxonomic family, causes approximately 90% of epidemic non bacterial outbreaks of gastroenteritis around the world and is responsible for 50% of all foodborne outbreaks of gastroenteritis in the US. Norovirus affects people of all ages. The viruses are transmitted by faecally contaminated food or water and by person to person contact. Noroviruses contain a positive-sense RNA genome of approximately 7.5 kbp, encoding a major structural protein (VP1) of about 58~60 kDa and a minor capsid protein (VP2). The virus particles demonstrate an amorphous surface structure when visualized using electron microscopy and are between 27-38 nm in size. Capsid protein VP1 attaches virion to target cells by binding histo-blood group antigens present on gastroduodenal epithelial cells. Soluble capsid protein may play a role in viral immunoevasion. Capsid protein VP1 binds to histoblood group antigens at surface of target cells. The shell domain (S domain) contains elements essential for the formation of the icosahedron. The Protruding domain (P domain) is divided into subdomains P1 and P2. P domain interacts in dimeric contacts that increase the stability of the capsid and form the protrusions on the virion. An hypervariable region in P2 is thought to play an important role in receptor binding and immune reactivity.

Images



Western blot - Anti-Norovirus Capsid protein VP1 antibody [NVGC-01] (ab272687)

All lanes : Anti-Norovirus Capsid protein VP1 antibody [NVGC-01] (ab272687) at 1/500 dilution

Lane 1 : Recombinant norovirus capsid protein of Genogroup I(Norwalk virus)

Lane 2 : Recombinant norovirus capsid protein of Genogroup II(Snow mountain virus)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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