

Norovirus capsid protein VP1 Antibody | anti-VP1 antibody

Anti-Norovirus capsid protein VP1 [A1227]

CATALOG # AAA72329	REACTIVITY Norovirus	APPLICATIONS ELISA
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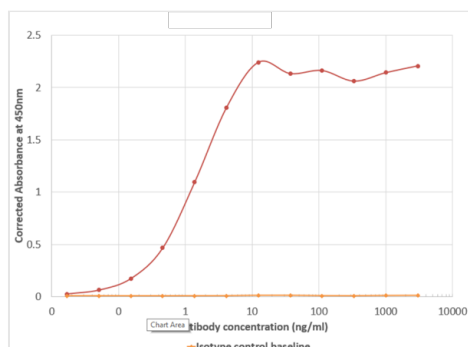
PRODUCT SYNONYMS

Norovirus capsid protein VP1; Anti-Norovirus capsid protein VP1 [A1227]; VP1; CP; p59; soluble capsid protein; Protein 30k; p30; Norwalk virus; anti-VP1 antibody

PRODUCT SPECIFICATIONS

Reactivity	Norovirus
Isotype	Mouse IgG1 kappa
Clone Number	A1227
Specificity	This antibody shows broadly binding but no blocking activity toward multiple GI and GII strains such as GI.1, GII.2, and GII.17. This antibody recognizes a highly conserved epitope located at an occluded site on the norovirus capsid, at the interface between the P domain and shell domain of the Norovirus, which explain its high level of cross-reactivity. Norovirus (NoVs) is one of the main pathogens causing sporadic cases and large outbreaks of acute gastroenteritis, and norovirus can infect people of all ages.
Purity/Purification	Purified. Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-VP1 antibody	ELISA
Chimeric Use Statement	This chimeric mouse antibody was made using the variable domain sequences of the original human IgG1 format for improved compatibility with existing reagents assays and techniques
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.

IMAGES



ELISA

ELISA using A1227 and Norovirus GII.4 VLP. Binding curves of the rabbit IgG chimeric version of the Anti-Norovirus capsid protein VP1 antibody A1227 and isotype control (yellow line) to an ELISA plate coated with Norovirus GII.4 VLP at a concentration of 2.5 ug/ml. A 3-fold serial dilution from 3000 to 0.0169 ng/ml was performed using, a 1:4000 dilution of a HRP-conjugated anti-rabbit IgG antibody was used.

ADDITIONAL INFORMATION

Related Product Information for anti-VP1 antibody	The original antibody was isolated from an anti-NoV GII.4c IgG serum antibody repertoire generated from three donors that experienced a significant increase in GII.4 titer after immunization with the bivalent GII.4c + GI.1 VLP vaccine. Describes the generation of this antibody and study of its crystal structure. This chimeric mouse antibody was made using the variable domain sequences of the original Human IgG1 format for improved compatibility with existing reagents assays and techniques.
Product Categories/Family for anti-VP1 antibody	virus ; virology ; gastroenteritis
References	Lindesmith et al. Immunity. 2019 Jun 18;50(6):1530-1541.

NCBI AND UNIPROT INFORMATION

NCBI GI #	9630804
NCBI GeneID	1491970
NCBI Accession #	NP_056820.1
NCBI GenBank Nucleotide #	NC_001959.2
UniProt Accession #	Q83883 ; AAB50465
Molecular Weight	198,694 Da
NCBI Official Full Name	nonstructural polyprotein
NCBI Official Symbol	NoVGI_gp1
NCBI Protein Information	nonstructural polyprotein; p48; NTPase; p22; VPg; Pro; RdRp
UniProt Protein Name	Genome polyprotein
UniProt Gene Name	ORF1
UniProt Synonym Gene Names	3CLpro; RdRp
UniProt Entry Name	POLG_NVN68

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.