

Recombinant Norovirus GII.4 VP1 antigen

Cat. No. VP1-16N Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Norovirus GII.4 VP1 antigen produced in mammalian HEK293 cells.
Species	Norovirus GII.4
Source	HEK293
ProteinLength	1-539 aa
Description	Norovirus VP1 protein is the capsid protein of Norovirus. It is a 59kD glycoprotein with three key domains. The shell domain (S domain) contains elements essential for the formation of the icosahedron. The Protruding domain (P domain) is divided into sub-domains 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.
Form	Liquid
Molecular Mass	59 kDa
Purity	Greater than 95% purity by SDS-PAGE.
Storage	Short Term Storage: 4 centigrade Long Term Storage: -80 centigrade Freezing: Can be frozen and thawed at least 5 times.

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Concentration	1.0 mg/ml, according to BCA test method using BSA standards.
Storage Buffer	20mM Tris-HCl pH 7.8, 10mM NaCl.
References	Karst SM. (2010). Pathogenesis of noroviruses, emerging RNA viruses. <i>Viruses</i>.Mar;2(3):748-81. PMID: 21994656 Robilotti E, Deresinski S, Pinsky BA. (2015). Norovirus. <i>Clin Microbiol Rev</i>.Jan;28(1):134-64. PMID: 25567225 Centers for disease control and prevention: Norovirus, Clinical overview Centers for disease control and prevention: Norovirus, Burden of norovirus illness and outbreaks Takeda press release: Takeda initiates world's first norovirus vaccine field trial

GENE INFORMATION

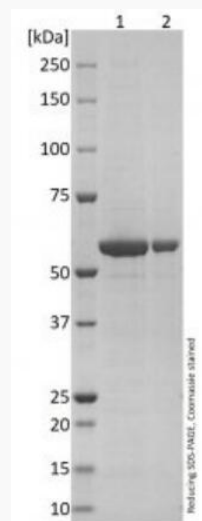
Gene Name	ORF2 VP1 [Norovirus GII]
Official Symbol	VP1
Synonyms	VP1; D9V40_gp2; ORF2
Gene ID	39105315
Protein Refseq	YP_009518842.1
UniProt ID	Q83884

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SDS-PAGE



Reducing SDS-PAGE gel showing purified Norovirus VP1, with protein migrating as a band of approximately 60kDa.

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