

NOROVIRUS MONOCLONAL ANTIBODIES

Specificity Genogroups GI and GII, including the GII.4 Norovirus Sydney 2012 variant

Host Species Mouse

RECOMMENDED ANTIBODIES:
MAB227P, MAB228P, MAB242P,
BM349-G1G1, BM349-H1C3

Application ELISA, Sandwich ELISA, Lateral Flow

Target Marker Norovirus is the primary cause of diarrhea globally and is responsible for approximately 200,000 deaths annually in developing countries. Despite substantial increases of norovirus knowledge due to focused research efforts, there remain critical gaps in the scientific understanding of norovirus infections. Central to addressing these gaps is the continued study and improved diagnosis of norovirus infections.

References Lopman BA, Steele D, Kirkwood CD, Parashar UD (2016) "The Vast and Varied Global Burden of Norovirus: Prospects for Prevention and Control" PLoS Med. 2016 Apr 26; 13 (4): e1001999.

WHY CHOOSE BBI'S ANTIBODIES?

- + The industry's largest and most broadly reactive norovirus antibody panel with options to meet any diagnostic goal
- + Performance tested matched pairs for GI, GII, GI + GII and virus neutralising goals
 - + Reactivity to clinically relevant GII.4 Sydney 2012 variant
- + Includes clones tested in ELISA and lateral flow applications
- + Includes clones used together for detection of a broad range of norovirus genotypes in commercial bioMérieux assays

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Characterisation

Monoclonal Antibodies to Norovirus Reactivity to VLP by Indirect ELISA													
	GI.1 1968	GI.3 1999	GI.4 2000	GII.1 1971	GII.2 1976	GII.3 1999	GII.4 2002	GII.4 2004	GII.4 2005	GII.4 2006	GII.4 2008	GII.4 2009	GII.4 2012
MAB223P	-	n/t	n/t	-	-	-	+	+	+	+	n/t	-	-
MAB224P	-	n/t	n/t	-	-	-	+	+	+	+	n/t	+	+
MAB225P	-	n/t	n/t	+	+	-	+	+	+	+	n/t	+	-
MAB226P	-	n/t	n/t	+	+	-	+	+	+	+	n/t	+	n/t
MAB227P*	-	-	-	-	-	-	+	+	+	+	+	+	+
MAB228P	+	+	+	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
MAB242P	+	+	n/t	+	n/t	n/t	+	+	n/t	+	n/t	+	+
MAB287P**	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	+	n/t	n/t	+
MAB288P**	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	+	n/t	n/t	+
MAB289P**	+	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t

Monoclonal Antibodies to Norovirus Reactivity to Positive Faecal Samples													
	GI.1 (VLP)	GII.1	GII.2	GII.3	GII.4	GII.5	GII.7	GII.8	GII.9	GII.10	GII.11	GII.12	GII.13
BM349-G1G1	+	+	+	+	+	+	+	+	w+	-	-	-	-
BM349-H1C3	-	+	+	-	-	n/t	-	-	n/t	-	n/t	n/t	n/t

Figure 1 – Specificity table showing the various clones reactivity to norovirus genogroups and genotypes. Most notably, this panel covers both GI and GII genogroups and the clinically relevant GII.4 2012 Sydney variant.

*MAB227P has been shown to work in virus neutralisation assays.

**Antibodies MAB287P, MAB288P and MAB289P were licensed from bioMeri ux. These antibody clones have been used together to detect a broad range of norovirus genotypes additional to what has been tested at BBI.

Key: + = Detected
 - = Not detected
 w+ = Weak detection
 n/t = Not tested

Matched Pair Compatibility to Norovirus VLP by Sandwich ELISA										
Biotinylated Detector Antibodies										
Capture Antibodies	Self-Pairs	MAB223P	MAB224P	MAB225P	MAB226P	MAB227P	MAB228P	MAB242P	BM349-G1G1	BM349-H1C3
	MAB223P	-	GII.4 M	GII.4 M	GII.4 M	-	-	GII.4 M	GII.4 M	GII.4 M
	MAB224P	GII.4 M	GII.4 M	GII.4 M GII.4 S	GII.4 M GII.4 S	GII.4 M	-	GII.4 M GII.4 S	GII.4 M GII.4 S	GII.4 M
	MAB225P	GII.4 M	GII.4 M GII.4 S	GII.4 M GII.4 S	GII.4 M GII.4 S	GII.4 M GII.4 S	GI.1	GII.4 M GII.4 S	GII.4 M GII.4 S	GII.4 M GII.4 S
	MAB226P	GII.4 M	GII.4 M GII.4 S	GII.4 M GII.4 S	GII.4 M GII.4 S	GII.4 M GII.4 S	-	GII.4 M GII.4 S	GII.4 M GII.4 S	GII.4 M GII.4 S
	MAB227P	-	GII.4 M	GII.4 M GII.4 S	GII.4 M GII.4 S	GII.4 M GII.4 S	-	GII.4 M GII.4 S	GII.4 M GII.4 S	GII.4 M GII.4 S
	MAB228P	-	-	GI.1	-	-	GI.1	GI.1	-	-
	MAB242P	GII.4 M	GII.4 M GII.4 S	GII.4 M GII.4 S	GII.4 M GII.4 S	GII.4 M GII.4 S	GI.1	GII.4 M GII.4 S	GII.4 M GII.4 S	GII.4 M GII.4 S
	BM349-G1G1	GII.4 M	GII.4 M GII.4 S	GII.4 M GII.4 S	GII.4 M GII.4 S	GII.4 M GII.4 S	-	GII.4 M GII.4 S	GII.4 M GII.4 S	GII.4 M GII.4 S
	BM349-H1C3	GII.4 M	GII.4 M	GII.4 M GII.4 S	GII.4 M GII.4 S	GII.4 M GII.4 S	-	GII.4 M GII.4 S	GII.4 M GII.4 S	GII.4 M GII.4 S

Figure 2 – Table showing matched pair combinations with GI.1 VLP and two GII.4 VLPs including the clinically relevant Sydney 2012 variant.

Key: GI.1 = GI.1 NV VLP
 GII.4 S = GII.4 2012 Sydney VLP
 GII.4 M = GII.4 2006b Minerva VLP

Pack sizes

1 mg, bulk amounts available on request.

ORDERING DETAILS - USE THE FOLLOWING CODES WHEN ORDERING

Product	Code	Description
Norovirus Monoclonal Antibody	MAB223P	Recognises GII.4 variants of norovirus. Tested in ELISA
Norovirus Monoclonal Antibody	MAB224P	Recognises GII.4 variants of norovirus including confirmed detection of the 2012 Sydney strain. Tested in ELISA
Norovirus Monoclonal Antibody	MAB225P	Of those norovirus variants tested, recognises GII.1, GII.2 and GII.4. Tested in ELISA
Norovirus Monoclonal Antibody	MAB226P	Of those norovirus variants tested, recognises GII.1, GII.2 and GII.4. Tested in ELISA
Norovirus Monoclonal Antibody	MAB227P	Recognises GII.4 variants of norovirus including confirmed detection of the 2012 Sydney strain. Shown to work in virus neutralisation assays. Tested in ELISA
Norovirus Monoclonal Antibody	MAB228P	Recognises GI variants of norovirus. Tested in ELISA
Norovirus Monoclonal Antibody	MAB242P	Recognises both GI and GII variants of norovirus including the 2012 Sydney strain. Tested in ELISA
Norovirus Monoclonal Antibody	MAB287P	Recognises GII.4 variants of norovirus including confirmed detection of the 2012 Sydney strain. Tested in ELISA. Used in commercial bioMérieux assays. Clone 11H12C6E11 has been shown to detect genotypes GII.3 and GII.4
Norovirus Monoclonal Antibody	MAB288P	Recognises GII.4 variants of norovirus including confirmed detection of the 2012 Sydney strain. Tested in ELISA. Used in commercial bioMérieux assays. Clone 1H3C3D8 has been shown to detect genotypes GII.3, GII.4, GII.6 and GII.12
Norovirus Monoclonal Antibody	MAB289P	Recognises GI.1 variants of norovirus. Tested in ELISA. Used in commercial bioMérieux assays. Clone 2A7F8H10 has been shown to detect genotypes GI.1, GI.2 and GI.3
Norovirus Monoclonal Antibody	BM349-G1G1	Recognises GI and GII strains of norovirus. Tested in lateral flow
Norovirus Monoclonal Antibody	BM349-H1C3	Recognises GII.1 and GII.2 strains of norovirus. Tested in lateral flow

Antibodies not tested against all variants. Broader recognition is possible.

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