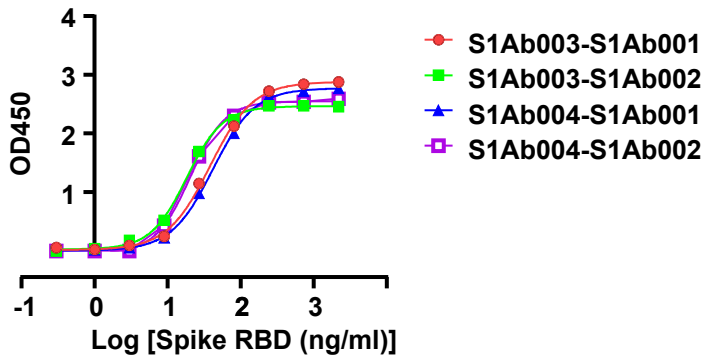




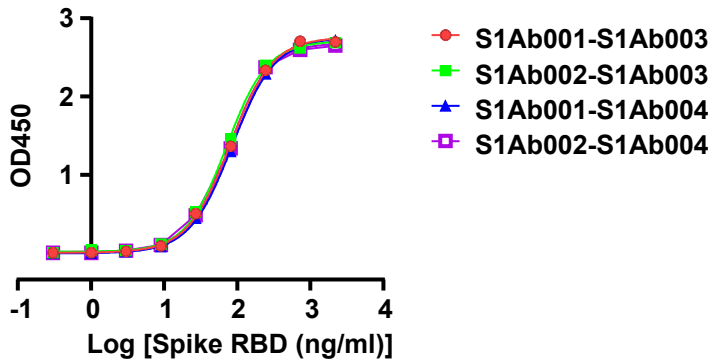
GeneMedi's SARS-CoV-2 Spike Antibody Pair And Stability Validation with Spike antigen In Sandwich ELISA

Capture-Detection



Capture	Detect	EC50 (ng/ml)
S1Ab003	S1Ab001	38.26
S1Ab003	S1Ab002	18.27
S1Ab004	S1Ab001	41.63
S1Ab004	S1Ab002	20.43

Capture-Detection



Capture	Detect	EC50 (ng/ml)
S1Ab001	S1Ab003	79.79
S1Ab002	S1Ab003	71.61
S1Ab001	S1Ab004	85.63
S1Ab002	S1Ab004	77.81

Figure. GeneMedi's SARS-CoV2 [Spike antibody](#) pair validation with Spike RBD antigen ([GMP-V-2019nCoV-SRBD001](#)) in sandwich ELISA.

Abbreviation

[S1Ab001](#)

[S1Ab002](#)

[S1Ab003](#)

[S1Ab004](#)

[Spike RBD](#)

Description

[GMP-V-2019nCoV-S1Ab001](#)

[GMP-V-2019nCoV-S1Ab002](#)

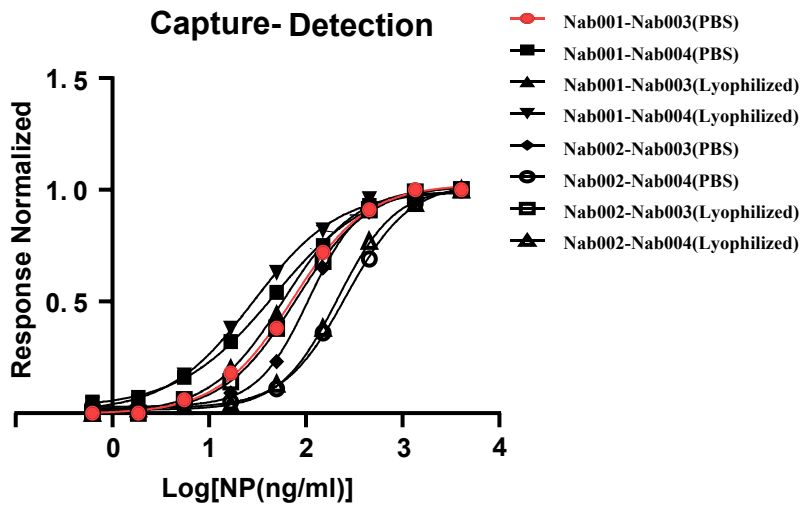
[GMP-V-2019nCoV-S1Ab003](#)

[GMP-V-2019nCoV-S1Ab004](#)

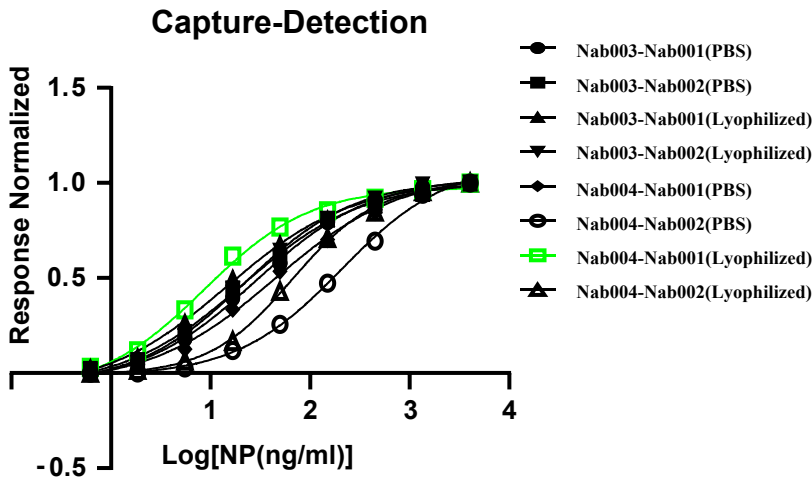
[GMP-V-2019nCoV-SRBD001](#)



GeneMedi's SARS-CoV-2 NP Antibody Pair And Stability Validation with NP antigen In Sandwich ELISA



Capture	Detect	E C 5 0 (ng/ml)
Nab001 in PBS	Nab003 in PBS	73
Nab001 in PBS	Nab004 in PBS	47.12
Nab001 lyophilized	Nab003 lyophilized	58.84
Nab001 lyophilized	Nab004 lyophilized	28.47
NAb002 in PBS	Nab003 in PBS	107.2
NAb002 in PBS	Nab004 in PBS	261.7
Nab002 lyophilized	Nab003 lyophilized	79.31
Nab002 lyophilized	Nab004 lyophilized	212.7



Capture	Detect	E C 5 0 (ng/ml)
Nab003 in PBS	NAb001 in PBS	28.36
Nab003 in PBS	NAb002 in PBS	21.23
Nab003 lyophilized	Nab001 lyophilized	14.65
Nab003 lyophilized	Nab002 lyophilized	22.3
Nab004 in PBS	NAb001 in PBS	44.14
Nab004 in PBS	NAb002 in PBS	206.1
Nab004 lyophilized	Nab001 lyophilized	8.656
Nab004 lyophilized	Nab002 lyophilized	66.43

Figure. GeneMedi's SARS-CoV2 [NP antibody](#)(Nab) pair validation with NP antigen([GMP-V-2019nCoV-N002](#)) in sandwich ELISA. Nabs were either in PBS solution (stocked in -20 for 7days) or **lyophilized (stock at room temperature for 7 days)**. GeneMedi's lyophilized antibodies presented excellent stability in the room temperature condition.

Abbreviation

[Nab001](#)

[Nab002](#)

[Nab003](#)

[Nab004](#)

PBS

lyophilized

[NP](#)

Response Normalized

Description

[GMP-V-2019nCoV-NAb001](#)

[GMP-V-2019nCoV-NAb002](#)

[GMP-V-2019nCoV-NAb003](#)

[GMP-V-2019nCoV-NAb004](#)

liquid in PBS buffer

lyophilized and stock at room temperature for 7 days before reconstitution

[SARS-CoV-2 NP antigen \(GMP-V-2019nCoV-N002\)](#)

Normalized by Max OD450



RELATED PRODUCTS

2019 nCoV (SARS2 coronavirus) Antibodies for COVID-19

Cat No.	Antibody Name of 2019-nCoV(SARS-CoV-2)	Isotype	Source	Bioactivity validation
GMP-V-2019nCoV-NAb001	Anti-2019-nCoV NP human monoclonal antibody	Human IgG1	Mammalian (human cell)	N protein binding, ELISA validated as capture antibody and detection antibody. Pair recommendation with GMP-V-2019nCoV-NAb002 , GMP-V-2019nCoV-NAb003 , GMP-V-2019nCoV-NAb004.
GMP-V-2019nCoV-NAb002	Anti-2019-nCoV NP human scFv-Fc antibody	Scfv	Mammalian (human cell)	N protein binding, ELISA validated as capture antibody and detection antibody. Pair recommendation with GMP-V-2019nCoV-NAb001, GMP-V-2019nCoV-NAb003 , GMP-V-2019nCoV-NAb004.
GMP-V-2019nCoV-NAb003	Anti-2019-nCoV NP mouse monoclonal antibody(mAb)	Mouse IgG	Hybridoma	N protein binding, ELISA validated as capture antibody and detection antibody. Pair recommendation with GMP-V-2019nCoV-NAb001, GMP-V-2019nCoV-NAb002, GMP-V-2019nCoV-NAb004.
GMP-V-2019nCoV-NAb004	Anti-2019-nCoV NP mouse monoclonal antibody(mAb)	Mouse IgG	Hybridoma	N protein binding, ELISA validated as capture antibody and detection antibody. Pair recommendation with GMP-V-2019nCoV-NAb001, GMP-V-2019nCoV-NAb002 , GMP-V-2019nCoV-NAb003.
GMP-V-2019nCoV-S1Ab001	Anti-2019-nCoV Spike (S1 protein) monoclonal antibody	Human IgG1	Mammalian (human cell)	S-RBD protein binding, ELISA validated
GMP-V-2019nCoV-S1Ab002	Anti-2019-nCoV Spike (S1 protein) monoclonal antibody	Human IgG1	Mammalian (human cell)	S-RBD protein binding, ELISA validated,Western Blot validated

SARS-CoV-2 (2019nCoV) Pseudotyped virus production & Pseudotyped Virus Based Neutralization Assay Service

1. SARS-CoV-2 Pseudotyped virus packaging and production (Cat.GM-2019nCoV-PSV01)
2. Effector cells: human ACE2 overexpression stable HEK293T cell lines
3. SARS-CoV-2(2019nCoV) Pseudotyped Virus Based Neutralization Assay Service for evaluating:
 - 1) Neutralizing antibodies
 - 2) Peptides blockers(peptide inhibitors)
 - 3) Types of Vaccines3(by testing immunized serum from mouse, NHP etc.)
 - 4) Compounds targeting Spike induced cell-fusion.

For details and price please [click here](#) or send email to support@genemedi.net

Recombinant 2019 nCoV (SARS2 coronavirus) Antigens reagents

Cat No.	Antigen Name of 2019-nCoV(SARS-CoV-2)	Source (Expression Host)	Tag
GMP-V-2019nCoV-N002	Recombinant 2019-nCoV(SARS-CoV-2) Nucleocapsid Protein (N protein,N-His tag)	E.coli	N-His
GMP-V-2019nCoV-SRBD001	Recombinant 2019-nCoV(SARS-CoV-2) Spike Protein (RBD, C-His Tag)	Mamamlian (human cell)	C-His
GMP-V-2019nCoV-SRBD002	Recombinant 2019-nCoV(SARS-CoV-2) Spike Protein (RBD, C-mFC Tag)	Mamamlian (human cell)	C-mFc
GMP-V-2019nCoV-S1001	Recombinant 2019-nCoV(SARS-CoV-2) Spike Protein (S1, His Tag)	Baculovirus-Insect Cells	C-His
GMP-V-2019nCoV-S1S2001	Recombinant 2019-nCoV(SARS-CoV-2) Spike Protein (S1+S2 ECD, His tag)	Baculovirus-Insect Cells	C-His
GMP-V-2019nCoV-E001	Recombinant 2019-nCoV(SARS-CoV-2) Envelope Protein (E protein,His Tag)	E.coli	N-His
GMP-H-ACE2001	Recombinant human soluble ACE2 protein (soluble hACE2,extracellular hACE2,C-His)	Mamamlian (human cell)	C-His
GMP-H-ACE2002	Recombinant human soluble ACE2 protein (soluble hACE2, extracellular hACE2, C-FC)	Mamamlian (human cell)	C-Fc
GMP-V-2019nCoV-Mpro001	Recombinant 2019-nCoV(SARS-CoV-2) Main Proteinase (Mpro,3CLpro, His Tag)	E.coli	N-His
GMP-V-2019nCoV-PLpro001	Recombinant 2019-nCoV(SARS-CoV-2) papain-like proteinase (PLpro, Nsp3, His Tag)	E.coli	N-His
GMP-V-2019nCoV-RdRP001	Recombinant 2019-nCoV(SARS-CoV-2) RNA-directed RNA polymerase(RdRP, Nsp12, His Tag)	E.coli	C-His
GMP-V-2019nCoV-Nsp3X-01	Recombinant 2019-nCoV(SARS-CoV-2)Nsp3-X domain(Macro domain, His tag)	E.coli	N-His
GMP-V-2019nCoV-Nsp10-01	Recombinant 2019-nCoV(SARS-CoV-2) nsp10 (nsp10-CysHis,GFL protein,His Tag)	E.coli	N-His
GMP-V-2019nCoV-Nsp16-01	Recombinant 2019-nCoV(SARS-CoV-2) nsp16 (nsp16-OMT,2'-o-MT,His Tag)	E.coli	N-His

2019 nCoV (SARS2 coronavirus) gene and vectors

Cat No.	2019 nCoV related Gene	Gene & Vector description of 2019 nCoV	Vector	Reporter	Tag	Coden Optimized
GMV-V-2019 nCoV-051	Spike(S1+S2)	pGMLV-2019nCoV-spike (S1+S2,C-6His)	Lentiviral vector	Zsgreen	C-6His	coden optimized for mamamlian
GMV-V-2019 nCoV-001	Spike(S1+S2)	pGMLV-2019nCoV-spike(S1+S2,C-6His)	Lentiviral vector	Zsgreen	C-6His	No
GMV-V-2019 nCoV-017	Spike(S1+S2)	pGM-2019nCoV-spike protein (Sprotein,S1+S2)	pcDNA3.1(+)	null	No tag	No
GMV-V-2019 nCoV-008	Spike(S1+S2)	pGM-2019nCoV-spike protein (S protein,S1+S2)	pcDNA3.1(+)	null	No tag	coden optimized for mamamlian
GMV-V-2019 nCoV-053	Spike(S1+S2)	Ad-2019nCoV-Spike(S1+S2,C-3FLAG)	Pre-made adenovirus	EGFP	C-3FLAG	coden optimized for mamamlian
GMV-V-2019 nCoV-047	Spike(S1+S2)	Ad-2019nCoV-Spike(S1+S2,C-3FLAG)	Pre-made adenovirus	EGFP	C-3FLAG	No
GMV-V-2019 nCoV-052	Spike(S1+S2)	pGMAD-2019nCoV-pGMAD-2019nCoV-spike (S protein,S1+S2,C-3FLAG)	Adenoviral vector	EGFP	C-3FLAG	coden optimized for mamamlian
GMV-V-2019 nCoV-004	Spike(S1+S2)	pGMAD-2019nCoV-pGMAD-2019nCoV-spike (S protein,S1+S2,C-3FLAG)	Adenoviral vector	EGFP	C-3FLAG	No
GMV-V-2019 nCoV-035	Spike(S1+S2)	pGM-2019nCoV-spike protein (S protein, S1+S2)	pET21a	null	C-His	coden optimized for E.coli
GMV-V-2019 nCoV-037	Spike(S1+S2)	pGM-2019nCoV-spike protein (S protein, S1+S2)	pET-28a(+)	null	His	No
GMV-V-2019 nCoV-002	Spike(S1)	pGMLV-2019nCoV-S1(C-6His)	Lentiviral vector	Zsgreen	C-6His	No
GMV-V-2019 nCoV-005	Spike(S1)	pGMAD-2019nCoV-S1(C-3FLAG)	Adenoviral vector	EGFP	C-3FLAG	No
GMV-V-2019 nCoV-048	Spike(S1)	Ad-2019nCoV-Spike(S1 protein, C-3FLAG)	Pre-made adenovirus	EGFP	C-3FLAG	No
GMV-V-2019 nCoV-003	Spike RBD	pGMLV-2019nCoV-Spike RBD(C-6His)	Lentiviral vector	Zsgreen	C-6His	No
GMV-V-2019 nCoV-007	Spike RBD	pGMAAV-2019nCoV-Spike RBD(C-3FLAG)	AAV vector	Zsgreen	C-3FLAG	No
GMV-V-2019 nCoV-050	Spike RBD	AAV-2019nCoV-Spike (S protein RBD, C-3FLAG)	Pre-made AAV	Zsgreen	C-3FLAG	No
GMV-V-2019 nCoV-006	Spike RBD	pGMAD-2019nCoV-Spike RBD(C-3FLAG)	Adenoviral vector	EGFP	C-3FLAG	No
GMV-V-2019 nCoV-049	Spike RBD	Ad-2019nCoV-Spike(S protein RBD, C-3FLAG)	Pre-made adenovirus	EGFP	C-3FLAG	No

2019 nCoV (SARS2 coronavirus) gene and vectors

Cat No.	2019 nCoV related Gene	Gene & Vector description of 2019 nCoV	Vector	Reporter	Tag	Coden Optimized
GMV-V-2019 nCoV-015	ORF8	pGM-2019nCoV-ORF8	pcDNA3.1(+)	null	No tag	No
GMV-V-2019 nCoV-024	ORF8	pGM-H2019nCoV-ORF8	pCDNA3.1(+)	null	No tag	coden optimized for mamamlian
GMV-V-2019 nCoV-033	ORF8	pGM-E2019nCoV-ORF8	pET21a	null	C-His	coden optimized for E.coli
GMV-V-2019 nCoV-014	ORF7	pGM-2019nCoV-ORF7a	pcDNA3.1(+)	null	No tag	No
GMV-V-2019 nCoV-023	ORF7	pGM-H2019nCoV-ORF7a	pCDNA3.1(+)	null	No tag	coden optimized for mamamlian
GMV-V-2019 nCoV-032	ORF7	pGM-E2019nCoV-ORF7a	pET21a	null	C-His	coden optimized for E.coli
GMV-V-2019 nCoV-013	ORF6	pGM-2019nCoV-ORF6	pcDNA3.1(+)	null	No tag	No
GMV-V-2019 nCoV-022	ORF6	pGM-H2019nCoV-ORF6	pCDNA3.1(+)	null	No tag	coden optimized for mamamlian
GMV-V-2019 nCoV-031	ORF6	pGM-E2019nCoV-ORF6	pET21a	null	C-His	coden optimized for E.coli
GMV-V-2019 nCoV-012	ORF3a	pGM-2019nCoV-ORF3a	pcDNA3.1(+)	null	No tag	No
GMV-V-2019 nCoV-021	ORF3a	pGM-H2019nCoV-ORF3a	pCDNA3.1(+)	null	No tag	coden optimized for mamamlian
GMV-V-2019 nCoV-030	ORF3a	pGM-E2019nCoV-ORF3a	pET21a	null	C-His	coden optimized for E.coli
GMV-V-2019 nCoV-016	ORF10	pGM-2019nCoV-ORF10	pcDNA3.1(+)	null	No tag	No
GMV-V-2019 nCoV-025	ORF10	pGM-H2019nCoV-ORF10	pCDNA3.1(+)	null	No tag	coden optimized or mamamlian
GMV-V-2019 nCoV-034	ORF10	pGM-E2019nCoV-ORF10	pET21a	null	C-His	coden optimized for E.coli
GMV-V-2019 nCoV-011	N protein	pGM-2019nCoV-Nucleocapsid Protein (N protein)	pcDNA3.1(+)	null	No tag	No
GMV-V-2019 nCoV-020	N protein	pGM-2019nCoV-Nucleocapsid Protein (N protein)	pCDNA3.1(+)	null	No tag	coden optimized for mamamlian
GMV-V-2019 nCoV-029	N protein	pGM-2019nCoV-Nucleocapsid Protein (N protein)	pET21a	null	C-His	coden optimized for E.coli

2019 nCoV (SARS2 coronavirus) gene and vectors

Cat No.	2019 nCoV related Gene	Gene & Vector description of 2019 nCoV	Vector	Reporter	Tag	Coden Optimized
GMV-V-2019 nCoV-010	M protein	pGM-2019nCoV-Membrane protein (M protein)	pcDNA3.1(+)	null	No tag	No
GMV-V-2019 nCoV-019	M protein	pGM-2019nCoV-Membrane protein (M protein)	pCDNA3.1(+)	null	No tag	coden optimized for mamamlian
GMV-V-2019 nCoV-028	M protein	pGM-2019nCoV-Membrane protein (M protein)	pET21a	null	C-His	coden optimized for E.coli
GMV-V-2019 nCoV-009	E protein	pGM-2019nCoV-Envelope Protein (E protein)	pcDNA3.1(+)	null	No tag	No
GMV-V-2019 nCoV-018	E protein	pGM-2019nCoV-Envelope Protein (E protein)	pCDNA3.1(+)	null	No tag	coden optimized for mamamlian
GMV-V-2019 nCoV-027	E protein	pGM-2019nCoV-Envelope Protein (E protein)	pET21a	null	C-His	coden optimized for E.coli
GMV-V-2019 nCoV-045	TMPRSS2	pGMLv-hTMPRSS2(C-3FLAG)	Lentiviral vector	Zsgreen	C-3FLAG	No
GMV-V-2019 nCoV-041	ACE2	pGMLV-hACE2(C-3FLAG)	Lentiviral vector	Zsgreen	C-3FLAG	No
GMV-V-2019 nCoV-042	ACE2	pAD-hACE2(C-3FLAG)	Pre-made Adenovirus	EGFP	C-3FLAG	No
GMV-V-2019 nCoV-046	TMPRSS2	pGMLv-mtmprss2(C-3FLAG)	Lentiviral vector	Zsgreen	C-3FLAG	No
GMV-V-2019 nCoV-043	ACE2	pAD-mACE2(C-3FLAG)	Pre-made Adenovirus	EGFP	C-3FLAG	No
GMV-V-2019 nCoV-044	ACE2	pGMLV-mACE2(C-3FLAG)	Lentiviral vector	Zsgreen	C-3FLAG	No