

SARS-COV-2 Rabbit Monoclonal Antibodies

Anti-Spike (S1 domain)

Immunogen: Recombinant S1 expressed in HEK293 cells

Antigen for Epitope Mapping: From N- to C- terminus, fragments named as A, B, C, and D, expressed in E. Coli.

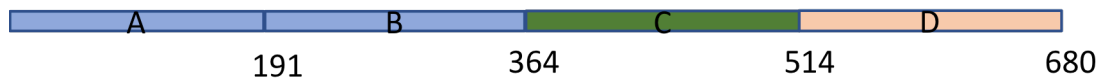


Figure 1. Antigens used for epitope mapping. The S1 domain of the SARS-COV-2 was split to 4 fragments (A, B, C, D) at positions indicated by the numbers. Protein of each fragment was expressed with a poly-His tag in E. Coli and purified. These fragments were used to test the binding of each antibody to determine epitope.

Cat#	Clone ID	Affinity Kd (M)	Binding Epitope	Application
551001	373-40A	4.1E-12	D	ELISA, LFIA, WB
551002	373-19A	4.3E-12	Unknown**	ELISA
551003	373-7A	4.4E-12	Unknown**	ELISA
551004	373-4A	4.7E-12	D	ELISA, LFIA, WB
551005	373-31A	4.9E-12	D	ELISA, WB
551006	375-29B	4.9E-12	B	ELISA, WB
551007	375-82B	6.2E-12	C*	ELISA, WB
551008	373-28A	6.9E-12	D	ELISA, WB
551009	375-27B	7.3E-12	A	ELISA, WB
551010	375-81B	7.6E-12	D	ELISA, WB
551011	373-26A	7.7E-12	B	ELISA, WB
551012	373-46A	7.9E-12	D	ELISA, LFIA, WB
551013	373-14A	8.6E-12	D	ELISA, WB
551014*	373-33A	9.1E-12	C*	ELISA, WB

Cat#	Clone ID	Affinity Kd (M)	Binding Epitope	Application
551015	373-25A	9.3E-12	B	ELISA, WB
551016	375-72B	9.4E-12	Unknown**	ELISA
551017	375-48B	9.6E-12	A	ELISA, WB
551018	375-67B	1.1E-11	D	ELISA, WB
551019	375-85B	1.4E-11	D	ELISA, WB
551020	375-86B	1.5E-11	D	ELISA, WB
551021	375-30B	3.1E-11	D	ELISA, WB
551022	375-35B	3.2E-11	Unknown**	ELISA
551023	373-29A	3.5E-11	D	ELISA, WB
551024	373-42A	3.7E-11	B	ELISA, LFIA, WB
551025	373-36A	8.0E-11	B	ELISA, WB
551026	373-16	3.2E-11	D	ELISA, WB
551027	373-18	1.6E-11	D	ELISA, WB
551028	373-40	1.7E-11	D	ELISA, WB
551029	373-53	1.3E-11	D	ELISA, WB

* Antibodies from clones 375-82B and 373-33A were verified of binding to RBD of Spike protein.

** Antibodies from clones 373-19A, 373-7A, 375-72B and 375-35B do not bind any of the fragments of S1 protein expressed in E. Coli, but specifically recognize and bind on S1 protein expressed in HEK293 cells.

*** Refer to individual antibodies for dilution factors in ELISA, lateral flow immunoassay (LFIA) or western blot (WB).