

# MOUSE MONOCLONAL ANTIBODIES AGAINST SARS-COV-2 SPIKE PROTEIN

[Diamond, Michael](#), [Fremont, Daved](#), [VanBlargan, Laura](#), [Zhao, Haiyan](#)

[Poranki, Deepika](#)

T-019470

**Species:** Mouse

**Target:** SARS-CoV-2 spike protein

**Applications:**

- **Research tool** - western blot, flow cytometry, ELISA, neutralization assays
- **Diagnostics** – antigen detection assay for COVID-19 infection
- **Vaccine development**

**Data:** See table below for library of antibodies, inventor can recommend specific clones based on intended application.

**Related Web Links:** [Diamond Profile](#)

## Available Antibodies

Ab:	Well #	Final Boost	flow cytometry	ELISA (Spike)	ELISA (RBD)	% neutralization	Ab:	Well #	Final Boost	flow cytometry	ELISA (Spike)	ELISA (RBD)	% neutralization
SARS2-01	2D6	RBD	+++	2.547	1.858	98	SARS2-44	16A7	RBD	+++	2.958	1.828	92
SARS2-02	3B9	RBD	+++	2.751	2.445	100	SARS2-45	16B9	RBD	weak	0.056	0.054	42
SARS2-03	4A6	RBD	+++	2.615	2.219	73	SARS2-46	20F5	RBD	+++	1.941	1.909	61
SARS2-04	7F5	RBD	+++	2.373	0.691	-11	SARS2-47	21A6	spike	+++	2.618	0.051	68
SARS2-05	8B6	RBD	+++	2.816	1.837	57	SARS2-48	1F7	RBD	+++	2.94	1.565	81
SARS2-06	11G10	RBD	+++	2.203	1.733	-29	SARS2-49	10C1	RBD	+++	2.451	2.285	87
SARS2-07	12A7	RBD	+++	3.097	2.724	90	SARS2-50	33C1	spike	+++	2.732	0.271	84
SARS2-08	12B4	RBD	+++	3.098	2.718	38	SARS2-51	33H3	spike	+++	2.943	0.152	52
SARS2-09	13H6	RBD	+++	2.424	2.357	79	SARS2-52	2C12	RBD	neg	0.312	0.059	62
SARS2-10	14E10	RBD	+++	2.699	2.554	87	SARS2-53	30C9	spike	+++	3.152	3.163	71
SARS2-11	25G4	spike	+++	2.569	0.048	5	SARS2-54	28C1	spike	+++	3.257	3.404	50
SARS2-12	26F3	spike	+++	2.834	0.075	48	SARS2-55	10B6	RBD	+++	3.312	3.457	100
SARS2-13	29G4	spike	+++	2.67	0.063	-8	SARS2-56	24H9	spike	+++	3.069	0.127	52
SARS2-14	29G10	spike	+++	2.969	1.904	38	SARS2-57	29F12	spike	+++	3.172	0.233	40
SARS2-15	29G11	spike	+++	2.184	1.756	88	SARS2-58	31H12	spike	+++	2.77	2.804	96
SARS2-16	30E2	spike	+++	2.641	2.256	98	SARS2-59	37A1	spike	weak	0.661	0.529	24
SARS2-17	37A5	spike	+++	2.774	0.048	-21	SARS2-60	33H5	spike	+++	1.236	0.07	10
SARS2-18	37B10	spike	+++	2.765	2.309	88	SARS2-61	15G10	RBD	+++	2.595	2.536	63
SARS2-19	37D8	spike	+++	2.82	2.55	96	SARS2-62	18C11	RBD	+++	2.587	2.687	45
SARS2-20	38G8	spike	+++	2.234	0.06	55	SARS2-63	2A10	RBD	+++	0.985	N/D	N/D
SARS2-21	16F4	RBD	+++	1.774	1.308	99	SARS2-64	25C6	spike	+++	1.655	N/D	N/D
SARS2-22	21E1	spike	+++	2.84	1.961	100	SARS2-65	25G2	spike	+++	1.376	N/D	N/D
SARS2-23	22H3	spike	+++	2.743	2.07	93	SARS2-66	35H3	spike	+++	1.224	N/D	N/D
SARS2-24	27B9	spike	+++	2.086	0.064	4	not cloned	17E9	RBD	+++	2.726	2.407	38
SARS2-25	30E9	spike	+++	2.782	2.402	90	not cloned	20B10	RBD	+++	2.408	1.815	29

Office of Technology  
Management

SARS2-26	30H6	spike	+++	2.714	0.058	5
SARS2-27	31D6	spike	+++	2.783	0.063	-18
SARS2-28	32D1	spike	+++	2.119	0.055	-10
SARS2-29	34E10	spike	+++	2.973	0.07	37
SARS2-30	37F2	spike	+++	2.776	0.061	43
SARS2-31	39E8	spike	+++	2.755	2.594	100
SARS2-32	7B9	RBD	+++	3.097	2.602	100
SARS2-33	16G6	RBD	weak	2.038	0.613	0
SARS2-34	28E10	spike	+++	2.995	2.659	94
SARS2-35	38H12	spike	+++	2.64	0.13	31
SARS2-36	40C12	spike	weak	2.631	0.084	9
SARS2-37	20E5	RBD	+++	2.594	1.192	36
SARS2-38	40F4	spike	+++	2.769	1.774	100
SARS2-39	20H9	spike	+++	2.82	2.276	87
SARS2-40	25H3	spike	+++	2.66	0.827	56
SARS2-41	39E10	spike	+++	2.816	2.091	80
SARS2-42	4E11	RBD	+++	1.74	1.591	71
SARS2-43	12B8	RBD	+++	1.517	1.49	53

not cloned	39B3	spike	+++	1.392	0.152	11
not cloned	39D12	spike	+++	1.915	0.053	37
not cloned	40D11	spike	+++	3.042	0.057	28
not cloned	2E6	RBD	neg	2.659	0.049	-20
not cloned	3H3	RBD	neg	1.22	2.974	0
not cloned	9B3	RBD	neg	0.951	0.501	-11
not cloned	17B5	RBD	neg	0.61	2.952	-14
not cloned	23B10	spike	neg	1.513	0.047	-23
not cloned	28A2	spike	neg	1.253	0.066	-13
not cloned	34E11	spike	neg	1.929	0.049	-32
not cloned	37C7	spike	neg	2.387	0.056	-32
not cloned	40C6	spike	neg	1.051	0.049	6
not cloned	3C6	RBD	neg	0.052	0.407	18
not cloned	5C2	RBD	neg	0.541	0.405	36
not cloned	28B3	spike	neg	2.437	0.744	29
not cloned	8D7	RBD	weak	0.2	0.046	0
not cloned	38A7	spike	neg	1.729	0.067	0