

Supplementary material

Serological screening in cats and dogs for SARS-CoV-2 infection

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Supplementary material

Supplementary Table 1. Percentage amino acid identity of canine and feline coronavirus spike and nucleocapsid proteins with SARS-CoV-2 proteins. Amino acid sequences were aligned by cluster W and pairwise identities were calculated with the needle method in the EMBOSS pairwise alignment algorithms program (http://www.ebi.ac.uk/Tools/psa/emboss_needle).

Virus type	Virus	Nucleocapsid	S	S1	RBD
Betacoronavirus	CRCoV	32.4	28.5	20	15.6
Alphacoronavirus	FCoV type I	29	24	16.8	7.7
	FCoV type II	27.8	25.3	17.7	8.9
	CCoV	28	25.1	16.9	8.9

Supplementary Table 2. Serological disposition of samples tested in different serological assays

Animal	Cohorts	SARS-CoV-2 S1 ELISA	SARS-CoV-2 RBD ELISA	Neutralization assay	No. samples	Conclusion
cat	COVID-19 exposed (total n=44)	+	+	+	10	Seropositive
		-	-	-	34	Seronegative
	2020 (total n=500)	+	+	+	2	Seropositive
		+	+	-	4	Suspect
		-	+	-	6	Seronegative
		-	-	- / NA	488	Seronegative
dog	COVID-19 exposed (total n=1)	+	+	+	1	Seropositive
		+	+	+	1	Seropositive
	2020 (total n=500)	+	-	-	8	Seronegative
		-	-	- / NA	491	Seronegative
		-	-	- / NA	491	Seronegative

Abbreviations: +, positive result; -, negative result; - / NA, negative results or not applicable