

# T-cell epitopes in SARS-CoV-2 infected mice

Version 1. March 2021

The following list of the antigen-specific epitopes have been shown to be recognized by SARS-CoV-2 specific T-cells.

HLA Allele	Peptide	Antigen	Reference
H2-Kd	GYLQPRTF	Spike	1
H2-Dd	KNKCVNFNF	Spike	1
H-2Ld	FPQSAPHGV	Spike	1
H2-Kb	GFSALEPL	Nucleocapsid	1
H2-Kb	RTLSYYKL	Membrane	1
H2-Kb	RGWIFGTT	Spike	1
H2-Db	PIGINITRF	Spike	1
H2-Kb	AAYYVGYL	Spike	1
H2-Kb	EIYQAGST	Spike	1
H2-Kb	VVLSFEL	Spike	1
H2-Db	CVNFNFNGL	Spike	1
H2-Db	DLLFNKVTL	Spike	1
H2-Db	YLYALVYFL	ORF3a	1
H2-Db	LALLLLDRL	Nucleocapsid	2
I-Ad	FPRGQGVPIINTNSSP	Nucleocapsid	1
I-Ad	QTVTKKSAAEASKK	Nucleocapsid	1
I-Ad	ILLNKHIDAYKTFPP	Nucleocapsid	1
I-Ed	NVTWFHAIHVSGTNG	Spike	1
I-Ad	KVGGNYNYLYRLFRK	Spike	1
I-Ad	FYSKWYIRVGARKSA	ORF8	1
I-Ab	QRNAPRITFGGPSDS	Nucleocapsid	1
I-Ab	VTWFHAIHVSGTNGT	Spike	1
I-Ab	CYDYCIPYNSVTSSI	ORF3a	1
I-Ab	EPIYDEPTTTTTSVPL	ORF3a	1
I-Ab	QFAFACPDGVKHYVQ	ORF7a	1

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## REFERENCES

- 1** Zhuang, Z., *et al.* (2021). Mapping and role of T cell response in SARS-CoV-2-infected mice. *J Exp Med*, 218(4). doi:10.1084/jem.20202187
- 2** Joag, V., *et al.* (2021). Cutting Edge: Mouse SARS-CoV-2 Epitope Reveals Infection and Vaccine-Elicited CD8 T Cell Responses. *J Immunol.* doi:10.4049/jimmunol.2001400