***Table S1. Key Resources Table (paper 1)***

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| --- | --- | --- | --- | --- |
| **Reagent type (species) or resource** | **Designation** | **Source or Reference** | **Identifiers** | **Additional Information** |
| Strain, strain background (*Mus musculus*) | C57BL/6 | Charles River Laboratories | Strain code 027 |  |
| Strain, strain background (*Mus musculus*) | Balb/c | Charles River Laboratories | Strain code 028 |  |
| Strain, strain background (*Mus musculus*) | BL/6.129P2-*Tcrbtm1MomTcrdtm1Mom*/J | Jackson Laboratory | Stock #2122 |  |
| Strain, strain background (*Mus musculus*) | C57BL/6 Rag2-/- | Prof T. Rabbitts (Laboratory of Molecular Biology, Cambridge, UK) |  |  |
| Strain, strain background (*Mus musculus*) | TCR-transgenic Rag1-/- TCR75 mice (H-2b), specific for I-Ab–restricted H-2Kd 54–68 peptide | Prof. P. Bucy (University of Alabama, Birmingham, AL, USA) |  | (1) |
| Strain, strain background (*Mus musculus*) | BCR-transgenic SWHEL (VH10tar+/- x LC2) mice (H-2b) | Prof R. Brink (Garvan Institute of Medical Research, Darlinghusrt, Australia) |  | (2) |
| Strain, strain background (*Mus musculus*) | Sh2d1a−/− | Dr S. Crotty (University of California, La Jolla, California) |  | (3) |
| Strain, strain background (*Mus musculus*) | TCR7 | Dr M Linterman (Laboratory of Lymphocyte Signalling and Development, Babraham Institute, Cambridge, UK) |  | (4)  TCR recognises the subdominant HEL I-Ab epitope HEL74–88 |
| Biological sample | Serum | Transplanted or naïve mice described in this paper |  |  |
| Antibody | anti-C4d | Abcam | 16-D2 |  |
| Antibody | IgG-FITC | BD Biosciences | G18-145 |  |
| Antibody | rat anti-mouse B220-APC | BD Biosciences | RA3-6B2 |  |
| Antibody | rat anti mouse GL7-FITC | BD Biosciences | clone GL7 |  |
| Antibody | Streptavidin-Alexa Fluor 555 | Thermo Fisher Scientific | S32355 |  |
| Antibody | rat anti-mouse CD4-biotin | BD Biosciences | H129.19 |  |
| Antibody | anti-CD19-PerCp | Miltenyi Biotec | clone LT19 |  |
| Antibody | HyHEL-10 | Absolute Antibody | cat# Ab00412-1.1 |  |
| Antibody | GL7-PE | BioLegend | clone GL7 |  |
| Antibody | FAS-PE-CY7 | BD Biosciences | clone Jo2 |  |
| Antibody | rat anti mouse-B220-FITC | BD Biosciences | clone RA3-6B2 |  |
| Antibody | Streptavidin-APC | Thermo Fisher Scientific | SA1005 |  |
| Peptide, recombinant protein | MHC class I tetramer (H-2K (d) Lm Llo 91-99GYKDGNEYI-APC | NIH Core Tetramer facility, Atlanta, GA, USA |  |  |
| Peptide, recombinant protein | MHC class I tetramer (H-2K (d) Lm Llo 91-99GYKDGNEYI-FITC | NIH Core Tetramer facility, Atlanta, GA, USA |  |  |
| Commercial assay or kit | Antibody Purification Kit | Thermo Scientific | cat# 89953 |  |
| Commercial assay or kit | Avidin/biotin blocking kit | Vector labs | cat# SP-2001 |  |
| Commercial assay or kit | Protein Quantification Kit-Rapid | Sigma-Aldrich | cat# 51254 |  |
| Chemical compound, drug | H-2K (d) protein | This paper |  |  |
| Chemical compound, drug | Hen egg lysozyme | Sigma-Aldrich | cat# L6876 |  |
| Chemical compound, drug | CellLytic M | Sigma-Aldrich | cat# C2978 |  |
| Software, algorithm | ForteBio (software 7.0.1.5) | <https://shop.fortebio.com/site-license-octet-data-analysis-software-version-7.x.html> |  |  |
| Software, algorithm | GraphPad vers. 4 | <https://www.graphpad.com/Downloads/InstallPrism403Updater.exe> |  |  |
| Software, algorithm | Flowjo 10.4.2 | https://s3-us-west-2.amazonaws.com/fjinstallers/FlowJo-Win64-10.4.2.exe |  |  |

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