Supplementary File 1: Key Resources Table

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| Reagent type (species) or resource | Designation | Source or reference | Identifiers | Additional information |
| antibody | anti-m154 (MCMV) (clone m154.4.113)  mouse monoclonal | (Zarama et al., 2014) | 1mg/ml stock | IF,FC(1:50)  WB (1:200) |
| antibody | anti-m123/IE1 (MCMV) (clone IE1.01)  mouse monoclonal | The in-house antibody production facility of Centre for Proteomics, Rijeka, Croatia | Cat# HR-MCMV-12  1mg/ml stock | IF,FC (1:100)  WB (1:1000) |
| antibody | anti-m20.1 (MCMV) (clone m20.1.02)  mouse monoclonal | (Lenac Rovis et al., 2006) | 1mg/ml stock | IF (1:100) |
| antibody | anti-m06 (MCMV)  (clone croma229)  mouse monoclonal | The in-house antibody production facility of Centre for Proteomics, Rijeka, Croatia | Cat# HR-MCMV-02  1mg/ml stock | FC (1:100) |
| antibody | anti-m04 (MCMV) (clone m04.17)  mouse monoclonal | The in-house antibody production facility of Centre for Proteomics, Rijeka, Croatia | 1mg/ml stock | FC (1:100) |
| antibody | PE anti-pp89 (MCMV)  mouse monoclonal | National Institutes of Health, USA |  | FC(1:50) |
| antibody | anti-mouse CD155 (clone mPVR.01 & .07)  rat monoclonal | This manuscript,  The in-house antibody production facility of Centre for Proteomics, Rijeka, Croatia | 1mg/ml stock | IF,FC (1:100)  WB (1:1000) |
| antibody | anti-mouse CD155 (clone 3F1)  rat monoclonal | Hycult Biotech, Uden, The Netherlands | Cat# HM1106 | IF,FC (1:100)  WB (1:500) |
| antibody | anti-human CD155 (clone hPVR.16)  mouse monoclonal | The in-house antibody production facility of Centre for Proteomics, Rijeka, Croatia | 1mg/ml stock | IF (1:100) |
| antibody | anti-mouse CD229 (Ly9) (clone 7.144.2)  mouse monoclonal | (Sintes et al., 2013) | 1mg/ml stock | IF,FC (1:50) |
| antibody | AF4888 anti-mouse CD48  armenian hamster mono. | Biolegend, San Diego, CA, USA | Cat# 103405 | FC (1:100) |
| antibody | Biotin anti-mouse CD47  mouse monoclonal | Biolegend, San Diego, CA, USA | Cat# 127505 | FC (1:100) |
| antibody | anti-mouse CD18 (clone M18/2)  rat monoclonal | Biolegend, San Diego, CA, USA | Cat# 101402 | FC (1:100) |
| antibody | anti-mouse CD54  mouse monoclonal | Immunotools,  Friesoythe, Germany | Cat# 21279544 | FC (1:100) |
| antibody | anti-mouse CD84 (clone 7)  armenian hamster mono. | Biolegend, San Diego, CA, USA | Cat# 122805 | FC (1:100) |
| antibody | anti-mouse CD162  rat monoclonal | BD Biosciences, San Jose, CA, USA | Cat# 555306 | FC (1:100) |
| antibody | PE anti-mouse CD262 (clone MD5-1)  armenian hamster mono. | eBioscience, San Diego, CA, USA | Cat# 12-5883-82 | FC (1:100) |
| antibody | APC anti-mouse CD270  armenian hamster mono. | Biolegend, San Diego, CA, USA | Cat# 136305 | FC (1:100) |
| antibody | anti-mouse MULT-1 (clone 1D6)  rat monoclonal | The in-house antibody production facility of Centre for Proteomics, Rijeka, Croatia | 1mg/ml stock | FC (1:100) |
| antibody | anti-mouse CD112 (clone 502-57)  rat monoclonal | Hycult Biotech, Uden, The Netherlands | Cat# HM1052 | FC (1:100) |
| antibody | anti-mouse Rae-1ε  rat monoclonal | R&D Systems, Minneapolis, MN, USA | Clone 205001 | FC (1:100) |
| antibody | mouse IgG1 (clone MOPC-21)  mouse monoclonal | BD Pharmingen, San Jose, CA, USA | Cat# 556648 | FC (1:100) |
| antibody | anti-mouse CD80 (clone MEM-233)  mouse monoclonal | Immunotools,  Friesoythe, Germany | Cat# 21270806 | FC (1:100) |
| antibody | APC anti-mouse IFNγ (clone XMG1.2)  rat monoclonal | BD Biosciences, San Jose, CA, USA | Cat# 554413 | FC (1:100) |
| antibody | PE/Cy7 anti-mouse CD8a (clone 53-6.7)  rat monoclonal | eBioscience, San Diego, CA, USA | Cat# 25-0081-82 | FC (1:100) |
| antibody | anti-mouse CD16/CD32 (clone 2.4G2)  rat monoclonal | (Yokoyama and Kim, 2008) |  | FC (1:100) |
| other | AF780 Fixable Viability Dye | eBioscience, San Diego, CA, USA | Cat# 65-0865-14 | FC (1:100) |
| antibody | normal rabbit IgG | Santa Cruz Biotechnology, Dallas, TX, USA | Cat# sc-3888 | IF (1:100) |
| antibody | TRITC anti-rat IgG, F(ab’)2  goat polyclonal | Santa Cruz Biotechnology, Dallas, TX, USA | Cat# sc-3829 | IF (1:200) |
| antibody | FITC anti-rat IgG, F(ab’)2  goat polyclonal | Santa Cruz Biotechnology, Dallas, TX, USA | Cat# sc-3825 | IF,FC (1:200) |
| antibody | FITC anti-mouse Ig  goat polyclonal | BD Biosciences, San Jose, CA, USA | Cat# 554001 | IF,FC (1:100) |
| antibody | APC anti-mouse IgG, F(ab’)2  goat polyclonal | eBioscience, San Diego, CA, USA | Cat# 17-4010-82 | IF (1:200) |
| antibody | PE anti-mouse Ig  goat polyclonal | BD Biosciences, San Jose, CA, USA | Cat# 550589 | FC (1:100) |
| other | PE Streptavidin | Tonbo Biosciences, San Diego, CA, USA | Cat # 54-4317-U500 | FC (1:100) |
| antibody | FITC anti-rabbit IgG, F(ab’)2  goat polyclonal | Santa Cruz Biotechnology, Dallas, TX, USA | Cat# sc-3839 | IF (1:200) |
| antibody | TRITC anti-rabbit IgG, F(ab’)2  goat polyclonal | Santa Cruz Biotechnology, Dallas, TX, USA | Cat# sc-3841 | IF (1:200) |
| antibody | FITC anti-human  donkey polyclonal | Jackson ImmunoResearch, Philadelphia, PA, USA | Cat# 709-095-098 | FC,IF (1:100) |
| antibody | anti-mouse γ1-adaptin  rabbit polyclonal | Santa Cruz Biotechnology, Dallas, TX, USA | Cat# sc-10763 | IF (1:100) |
| antibody | anti-mouse calnexin  rabbit polyclonal | Sigma-Aldrich, St. Louis, MO, USA | Cat# C4731 | IF (1:100) |
| antibody | anti-actin (clone C4)  mouse monoclonal | Merck Millipore, Burlington, MA, USA | Cat# MAB1501 | WB (1:80000) |
| antibody | anti-HA peroxidase (clone 3F10)  goat polyclonal | Roche, Basel, Switzerland | Cat# 12 013 819 001 | WB (1:1000) |
| antibody | anti-asialo GM1  rat polyclonal | Fujifilm Wako Pure Chemical Corporation, Osaka, Japan | Cat# 986-10001 |  |
| antibody | anti-mouse CD4 (YTS 191.1)  rat monoclonal | Laboratory of Stipan Jonjic, Rijeka, Croatia |  |  |
| antibody | anti-mouse CD8 (YTS 169.4)  rat monoclonal | Laboratory of Stipan Jonjic, Rijeka, Croatia |  |  |
| strain, strain background (*Escherichia coli*) | Escherichia coli, strain GS1783 | (Tischer et al., 2010) |  |  |
| strain, strain background-  Mouse cytomegalovirus | wild type (BAC-derived strain pSM3fr) | (Wagner et al., 1999) |  |  |
| strain, strain background-  Mouse cytomegalovirus | BAC-derived strain pSM3fr-GFP | (Mathys et al., 2003) |  |  |
| strain, strain background-  Mouse cytomegalovirus | mutant ∆m144-m158-GFP | (Brune et al., 2006) |  |  |
| strain, strain background-  Mouse cytomegalovirus | mutant ∆m144-m148-GFP | (Brune et al., 2006) |  |  |
| strain, strain background-  Mouse cytomegalovirus | mutant ∆m149-m153-GFP | (Brune et al., 2006) |  |  |
| strain, strain background-  Mouse cytomegalovirus | mutant ∆m153-m158-GFP | (Brune et al., 2006) |  |  |
| strain, strain background-  Mouse cytomegalovirus | mutant Δm154 | (Zarama et al., 2014) |  |  |
| strain, strain background-  Mouse cytomegalovirus | mutant Δm154*Int* | (Zarama et al., 2014) |  |  |
| strain, strain background-  Mouse cytomegalovirus | mutant m154-DDAA | This manuscript, Laboratory of Stipan Jonjic, Rijeka, Croatia |  |  |
| strain, strain background-  Mouse cytomegalovirus | mutant Δm138/fcr-1 | (Crnkovic-Mertens et al., 1998) |  |  |
| strain, strain background-  Human cytomegalovirus | HCMV strain TB40/E | (Sinzger et al., 2008) |  |  |
| other | TIGIT-Fc, ectodomain of mouse TIGIT, human IgG1 Fc fragment | The in-house antibody production facility of Centre for Proteomics, Rijeka, Croatia | 1mg/ml stock | FC (5 ul per test) |
| other | DNAM-1-Fc, ectodomain of mouse DNAM-1, human IgG1 Fc fragment | The in-house antibody production facility of Centre for Proteomics, Rijeka, Croatia | 1mg/ml stock | FC (5 ul per test) |
| other | h-Fc, human IgG1 Fc fragment | The in-house antibody production facility of Centre for Proteomics, Rijeka, Croatia | 1mg/ml stock | FC (5 ul per test) |
| other | mCD155-Fc, ectodomain of mouse CD155, human IgG1 Fc fragment | The in-house antibody production facility of Centre for Proteomics, Rijeka, Croatia | 1mg/ml stock | FC (5 ul per test) |
| other | pp89-derived peptide (IE1) (MCMV) | JPT Peptide Technologies, Berlin, Germany |  |  |
| chemical compound, drug | Brefeldin A | eBioscience, San Diego, CA, USA | Cat# 00-4506-51 | 1 µg/ml |
| chemical compound, drug | Pierce EZ-LINK Sulfo-NHS-SS-biotin labeling kit | Thermo Fischer Scientific, Waltham, MA, USA | Cat# A39258 |  |
| chemical compound, drug | Leupeptin | Sigma-Aldrich, St. Louis, MO, USA | Cat#B7651 | 75ug/ml |
| chemical compound, drug | DAMP | Molecular probes, Eugene, OR, USA | Cat#D-1552 |  |
| cell line (*M. musculus*) | B12 | (Del Val et al., 1991) |  |  |
| cell line (*M. musculus*) | DC2.4 | Merck Millipore, Burlington, MA, USA | Cat# SCC142 |  |
| cell line (*Homo-sapiens*) | HEK 293T cell line | ATCC, Manassas, VA, USA | Cat# CRL-3216 |  |
| strain, strain background  (*M. musculus*) | MAXI mice | (Torti et al., 2011) |  |  |
| strain, strain background  (*M. musculus*) | BALB/c mice | Central Animal Facility, Faculty of Medicine, University of Rijeka and Central Animal Facility, Faculty of Medicine, University of Barcelona, Spain |  |  |
| strain, strain background  (*M. musculus*) | C57BL/6 mice | Central Animal Facility, Faculty of Medicine, University of Rijeka, Croatia |  |  |
| Sequence-based reagent | m154-CTermDelFlag-F: 5'-TCACCGTTGTGATTTTATCTGGGATCGCCGCGGGAGTACTCCTGATCACATACCCATACGATGTTCCAGATTACGCTTGAAGGATGACGACGATAAGTAGGG-3' | Biomers, Ulm, Germany |  |  |
| Sequence-based reagent | m154-CtermDelFlag-R: 5'-AAACACCGCACCAGAGACCAAGTATAAAGCAGTTTTATTGAGCTGATGAGTCAAGCGTAATCTGGAACATCGTATGGGTATGTGATCAGGAGTGTATATCTGGCCCGTACATCGATCT-3' | Biomers, Ulm, Germany |  |  |
| Sequence-based reagent | m154-CTermDelFlag-short-F: 5'-TCACCGTTGTGATTTTATCT-3' | Biomers, Ulm, Germany |  |  |
| Sequence-based reagent | m154-CtermDelFlag-short-R: 5'-AAACACCGCACCAGAGACCA-3' | Biomers, Ulm, Germany |  |  |
| Sequence-based reagent | Pep-Kan-F: 5'-AGGATGACGACGATAAGTAGGG-3' | Biomers, Ulm, Germany |  |  |
| Sequence-based reagent | Pep-Kan-R: 5'-GTATATCTGGCCCGTACATCGATCT-3' | Biomers, Ulm, Germany |  |  |
| Sequence-based reagent | ORF-Kan-F: 5'-ATGAGCCATATTCAACGGGA-3' | Biomers, Ulm, Germany |  |  |
| Sequence-based reagent | ORF-Kan-R: 5'-CTCATCGAGCATCAAATGAAA-3' | Biomers, Ulm, Germany |  |  |
| Sequence-based reagent | m154-AA-Flag-F: 5'-GATCGCCGCGGGAGTACTCCTGATCACACACCGTTGGGAAGCAGCAAAGGGTGGGGAGGTGGCACTCGGGGAAGGTTATGACGAGTCTTATGTGTACCCATACGATGTTCCAGATTACGCTTGAAAGGATGACGACGATAAGTAGGG-3' | Biomers, Ulm, Germany |  |  |
| Sequence-based reagent | m154-AA-Flag-R: 5'- AAACACCGCACCAGAGACCAAGTATAAAGCAGTTTTATTGAGCTGATGAGTCAAGCGTAATCTGGAACATCGTATGGGTACACATAAGACTCGTCATAACCTTCCCCGAGTGCCACCTCCCCACCCTTTGCTGCGTATATCTGGCCCGTACATCGATCT-3' | Biomers, Ulm, Germany |  |  |
| Sequence-based reagent | m154-AA-Flag-F-short: 5'- GATCGCCGCGGGAGTACTCC-3' | Biomers, Ulm, Germany |  |  |
| Sequence-based reagent | m154-AA-Flag-R-short: 5'- AAACACCGCACCAGAGACCAA-3' | Biomers, Ulm, Germany |  |  |
| Sequence-based reagent | m154-HA-R-long: 5’-AAACACCGCACCAGAGACCAAGTATAAAGCAGTTTTATTGAGCTGATGAGTCAAGCGTAATCTGGAACATCGTATGGGTACACATAAGACTCGTATATCTGGCCCGTACATCGATCT-3’ | Biomers, Ulm, Germany |  |  |
| Sequence-based reagent | KanF: 5’-AAGGATGACGACGATAAGTAGGG-3’ | Biomers, Ulm, Germany |  |  |
| Sequence-based reagent | m154-HA-F-long: 5’-ATAAGGGTGGGGAGGTGGCACTCGGGGAAGGTTATGACGAGTCTTATGTGTACCCATACGATGTTCCAGATTACGCTTGAAAGGATGACGACGATAAGTAGGG-3’ | Biomers, Ulm, Germany |  |  |
| Sequence-based reagent | m154-HA-short-R: 5’-AAACACCGCACCAGAGACCAAG-3’ | Biomers, Ulm, Germany |  |  |
| Recombinant DNA reagent | plasmid pIRES Puro | (Glasner et al., 2012) |  |  |
| Recombinant DNA reagent | MCMV BAC pSM3fr | (Wagner et al., 1999) |  |  |
| other | Flow cytometer/cell sorter | BD Biosciences, San Jose, CA, USA | FACSAriaIlu |  |
| other | Flow cytometer | BD Biosciences, San Jose, CA, USA | FACScan |  |
| other | Confocal microscope | Olympus, Tokio, Japan | FV300 |  |
| other | Chemiluminescent imaging system | GE Healthcare, , Chicago, IL, USA | ImageQuant4000 mini |  |
| other | Liquid chromatography system | GE Healthcare, , Chicago, IL, USA | AKTA Purifier |  |
| other | platform for absorption/  luminescence/fluorescence | Berthold, Bad Wildbad, Germany | TriStar |  |
| Software, algorithm | FlowJo\_V10 | Tree star, Ashland, OR, USA | RRID:SCR\_008520 |  |
| Software, algorithm | GraphPad Prism 8 | GraphPad, San Diego, CA, USA | RRID:SCR\_002798 |  |
| Software, algorithm | DiVa v8.0.2. | BD Biosciences, San Jose, CA, USA | RRID:SCR\_001456 |  |
| Software, algorithm | FluoView FV300 | Olympus, Tokio, Japan | RRID:SCR\_017015 |  |

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