# Materials

| Reagent or Resource | Resource | Identifier |
|---------------------|----------|------------|
| **Antibodies:**     |          |            |
| anti mouse HRP      | Bio-Rad  | #1706516  |
| conjugated          |          |            |
| anti mouse Alexa546 | Thermo Fisher Scientific | #A10036 |
| anti rabbit HRP     | Sigma-Aldrich | #1706515  |
| conjugated          |          |            |
| anti rabbit Alexa647| Thermo Fisher Scientific | #21244  |
| ASC (mouse specific)| Cell Signaling Technology | #67824  |
| (clone: D2W8U)      |          |            |
| ASC (clone: B-3)    | Santa Cruz Biotechnology | #514414 |
| caspase-1 (p-20)    | AdipoGen | #AG-20B-0044-C100 |
| (clone: Casper-1)   |          |            |
| GAPDH               | Sigma-Aldrich | #G9545 |
| goat anti mouse     | Thermo Fisher Scientific | #A10680 |
| Alexa488            |          |            |
| goat anti rabbit    | Thermo Fisher Scientific | #A21244 |
| Alexa647            |          |            |
| H4Cit               | Millipore | #07-596 |
| Ly6G (clone: 1A8)   | BD Bioscience | #551459 |
| NLRP3 (clone: Cryo-2)| AdipoGen | #AG-20B-0014-C100 |
| NLRP3 (clone: D4D8T)| Cell Signaling Technology | #15101 |
| PAD4                | Thermo Fisher Scientific | custom made |
| **Dyes:**           |          |            |
| DAPI solution       | Thermo Fisher Scientific | #62248 |
| ER-tracker          | Thermo Fisher Scientific | #E34250 |
| Hoechst 33342       | Invitrogen | #H3570 |
| SiR-DNA             | Cytoskeleton Inc. | #CY-SC007 |
| **Chemicals and compounds:** | | |
| AC-YVAD-cmk         | InvivoGen | #inh-yvad |
| All-In-One RT MasterMix | Applied Biological Materials Inc. | #G485 |
| Bradford reagent    | Bio-Rad  | #5000001  |
| BSA                 | Sigma-Aldrich | #7906  |
| Cl-amidine          | Cayman Chemical | #10599  |
| DMEM                | Thermo Fisher Scientific | #10569-010 |
| DMSO                | Sigma-Aldrich | #D2650  |
| ECL detection solution | Thermo Fisher Scientific | #32106 |
| EDTA                | Strem Chemicals | #93-1104 |
| endotoxin-free BSA  | Sigma-Aldrich | #9306  |
| endotoxin-free mini-prep kit | Qiagen | #27104 |
| Materials:                                                                 | Supplier                | Catalog Number   |
|--------------------------------------------------------------------------|-------------------------|-----------------|
| Ethanol                                                                  | Pharmco-Aaper           | #111000200      |
| FastAP                                                                  | Fermentas               | #E0651          |
| FastDigest BsmBI                                                          | Fermentas               | #FD0454         |
| FBS                                                                     | VWR                     | #97068-091      |
| gRNA and primer                                                          | Integrated DNA Technologies | N/A             |
| HEPES                                                                    | Thermo Fisher Scientific | #15630-080     |
| IL-1β ELISA                                                              | BioLegend               | #432601         |
| Ionomycin                                                                | Thermo Fisher Scientific | # I24222        |
| Isoflurane                                                               | Patterson Veterinary     | # 07-893-2374   |
| LDS buffer                                                               | Thermo Fisher Scientific | #B0007          |
| LPS                                                                     | InvivoGen               | #lrl-b5lps      |
| MCC950                                                                   | InvivoGen               | #inh-mcc        |
| M-CSF                                                                    | ProSpec                 | #CYT-439        |
| Mountant medium (DAPI)                                                   | Thermo Fisher Scientific | #P36966         |
| Nigericin                                                                | Sigma-Aldrich           | #N7143          |
| Padi4 cDNA                                                               | Origene                 | #MC220244       |
| Paraformaldehyde                                                         | Electron Microscopy Sciences | #15710-S     |
| PBS                                                                     | Thermo Fisher Scientific | #14190-144     |
| Penicillin/Streptomycin                                                 | Sigma-Aldrich           | #P4333          |
| Percoll                                                                  | Sigma-Aldrich           | #GE17-5445-01   |
| Phenol red-free RPMI 1640                                                 | Sigma-Aldrich           | #R7509          |
| Phosphatase inhibitor                                                    | Thermo Fisher Scientific | #78420          |
| PMA                                                                     | Sigma-Aldrich           | #P1585          |
| Polybrene                                                                | Santa Cruz Biotechnology | #sc-134220     |
| Protease inhibitor                                                       | Thermo Fisher Scientific | #87786          |
| PureLink™ RNA Mini Kit                                                   | Thermo Fisher Scientific | #12183018A     |
| Reducing agent                                                           | Thermo Fisher Scientific | #B0009          |
| RIPA buffer                                                              | Thermo Fisher Scientific | #89901          |
| RPMI 1640 (L-Glutamine)                                                  | Thermo Fisher Scientific | #11875-093     |
| SYBR Green SuperMix                                                      | Quanta Biosciences      | #95054-100     |
| T7 ligase                                                                | Enzymatics              | #L602L          |
| Tissue-Tek® O.C.T.™                                                      | VWR                     | #4583           |
| Triton-X 100                                                             | Sigma-Aldrich           | #93426          |
| Tween 20                                                                 | Sigma-Aldrich           | #P1379          |
| 5-0 nylon suture                                                         | Ethicon                 | #G695G          |
| 6-0 monocryl suture                                                      | Ethicon                 | #Y492G          |
| 7-0 polypropylene suture                                                | Ethicon                 | #8696G          |
| 0.45µm filter                                                           | Pall Corporation        | #4614           |
| Item                                                      | Supplier               | Part Number          |
|-----------------------------------------------------------|------------------------|----------------------|
| 40 µm cell strainer                                       | Sigma-Aldrich          | #431750              |
| 35 mm glass bottom petri dish                            | MatTek                 | #P35G-1.5-20-C       |
| 24-well glass bottom plate                               | CellVis                | #P24-1.5H-N          |
| 4-12% Bis-Tris gel                                       | Thermo Fisher Scientific| #NW04122BOX          |
| 6-well plate                                              | VWR                    | #734-2323            |
| 96-well glass bottom plate                               | Greiner bio-one        | #655892              |
| coverslips                                               | Sigma-Aldrich          | #CLS285022           |
| EDTA coated vacutainer                                    | Becton Dickinson        | #366643              |
| microscopy slides                                        | Fisher Scientific       | #12-550-123          |
| PVDF membrane                                            | Thermo Fisher Scientific| #IB401001            |
| Devices:                                                  |                        |                      |
| FACSARIA II Cell Sorter                                  | BD Bioscience          | N/A                  |
| LSRFortessa flow cytometer                               | BD Bioscience          | N/A                  |
| Hemavet                                                  | Drew Scientific        | N/A                  |
| iBlot                                                    | Thermo Fisher Scientific| N/A                  |
| StepOnePlus RealTime PCR System                          | Applied Biosystems     | N/A                  |
| Software:                                                 |                        |                      |
| AxioVision Version                                       | Carl Zeiss Microscopy  | N/A                  |
| Elements Version                                         | Nikon                  | N/A                  |
| Fiji / ImageJ Version 2.0.0                              | Schindelin, J.; Arganda-Carreras, I. & Frise, E. et al. (2012)| PMID 22743772        |
| GraphPad Prism (Version 8)                               | GraphPad Software      | N/A                  |
| MS Excel                                                 | Microsoft              | N/A                  |
| Olympus FluoView viewer software Version 3.0             | Olympus                | N/A                  |
| StepOne Software v2.1                                    | Thermo Fisher Scientific| N/A                  |