

Materials List for:

# Activation and Measurement of NLRP3 Inflammasome Activity Using IL-1 $\beta$ in Human Monocyte-derived Dendritic Cells

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## Materials

| Name   | Company                      | Catalog Number   | Comments  |
|--|------------------------------|------------------|---|
| IL-4   | R&D                          |                  |   |
| GM-CSF   | Genzyme                      | NDC 58468-0180-2 | We acquire this item through our local pharmacy with a prescription |
| RPMI 1640 with L-glutamine   | Cellgro                      | 10-040-CV        |   |
| Peripheral blood mononuclear cells   | New York Blood Center        |                  | PBMCs were isolated from the blood of healthy donors                |
| 12 well tissue culture plates  | Sigma-Aldrich                | 3516             |   |
| 96 well round bottom tissue culture plates                                   | Sigma-Aldrich                | 3799             |   |
| $\alpha$ -IL-1 $\beta$ -FITC   | R&D                          | IC201F           |   |
| FITC isotype control   | Miltenyi Biotec              | 130-092-213      |   |
| $\alpha$ - $\beta$ -Tubulin  | Santa Cruz                   | SC-9014          |   |
| $\alpha$ -IL-1 $\beta$   | R&D                          | mab201           |   |
| PVDF Immobilon-FL membrane   | Millipore                    | IPFL00010        |   |
| gradient 4-12% polyacrylamide gel  | Bio Rad                      | 161-1159         |   |
| Laemmli sample buffer  | Bio Rad                      | 161-0737         |   |
| BSA  | Equitech Bio Inc             |                  | 30% solution sterile/filtered                                       |
| PFA  | Electron Microscopy Sciences | 15710            | 16% solution  |
| Human inflammatory cytokine bead array kit                                   | BD                           | 551811           |   |
| Nigericin  | Invivogen                    | tlrl-nig         |   |
| R848   | 3M Corp.                     |                  |   |
| $\alpha$ -CD14   | BD                           | 340436           |   |
| $\beta$ -mercaptoethanol   | Sigma-Aldrich                | M6250-10ML       |   |
| TBS  |                              |                  | On site stock room  |
| Tween-20   | Sigma-Aldrich                | P2287-100mL      |   |
| Nunc EasYFlask 225 cm <sup>2</sup> , Filter Cap, 70 ml working volume, 30/Cs | Thermo Scientific            | 159933           |   |
| 20 $\mu$ M Sterile Disposable Filter Units                                   | Thermo Scientific            | 569-0020         |   |
| HEPES  | Invitrogen                   | 15630080         |   |
| Goat $\alpha$ -mouse IRDye 800CW   | Licor                        | 926-32210        |   |
| Donkey $\alpha$ -rabbit IRDye 680RD  | Licor                        | 926-68073        |   |

|   |                   |          |  |
|---|-------------------|----------|--|
| Spectra multicolor broad range protein ladder                   | Thermo Scientific | 26634    |  |
| Tris Glycine SDS 10x  | Bio Rad           | 1610732  |  |
| Tris Glycine 10x  | Bio Rad           | 161-0734 |  |
| Methanol - 4 L  | Fisher Scientific | A433P-4  |  |
| 8 chamber polystyrene vessel tissue culture treated glass slide | BD Falcon         | 354108   |  |
| Poly-L-Lysine   | Sigma             | P4707    |  |