

# JAWSII Mouse Bone Marrow ( Adult ) Dendritic Cell Line

SKU: CDS4861 | Category: Cell Lines — Other Established Cell Lines

**Validation & Biomarker Data Guide** · Lineage classification: Dendritic cell

## 1. Product Overview

JAWSII Mouse Bone Marrow ( Adult ) Dendritic Cell Line is an established cell line for controlled in vitro research. It can support cell biology, growth and viability studies, signaling and pathway research, drug-response testing, screening and assay development under validated culture conditions. The model provides a reproducible cellular system for basic and translational research. For research use only.

Growth type: Adherent Cells | Tumorigenic status: Normal Cells | Pack size: 1 x 1 million cells

## 2. Typical Applications

- Cell-based assay development, pathway and mechanism studies, biomarker characterization, and comparative functional testing consistent with this lineage.

## 3. Identity & Phenotypic Marker Panel

A representative identity panel for dendritic cell products is shown below. Actual per-lot Certificates of Analysis should be consulted for verified identity data.

| Marker | Expected Result | Range            |
|--------|-----------------|------------------|
| CD11c  | Positive        | 70–95% positive  |
| HLA-DR | Positive        | 75–97% positive  |
| CD86   | Positive        | 50–85% positive  |
| CD14   | Negative / low  | ≤8% (background) |
| CD3    | Negative / low  | ≤5% (background) |

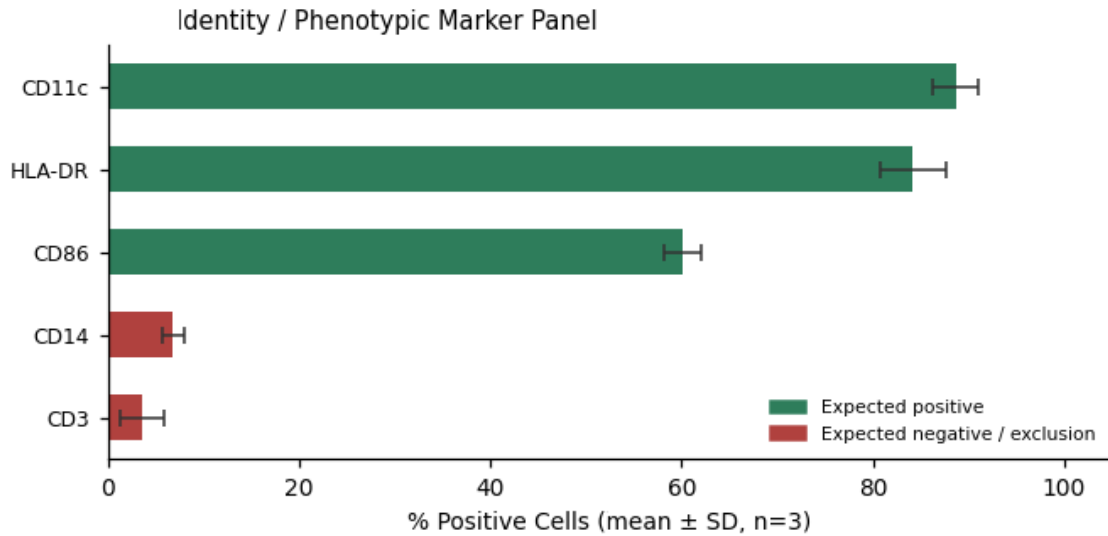


Figure 1. Marker expression profile (mean ± SD, n = 3 replicates).

#### 4. Growth Kinetics & Viability

Growth and viability trends over 120 hours in standard culture conditions.

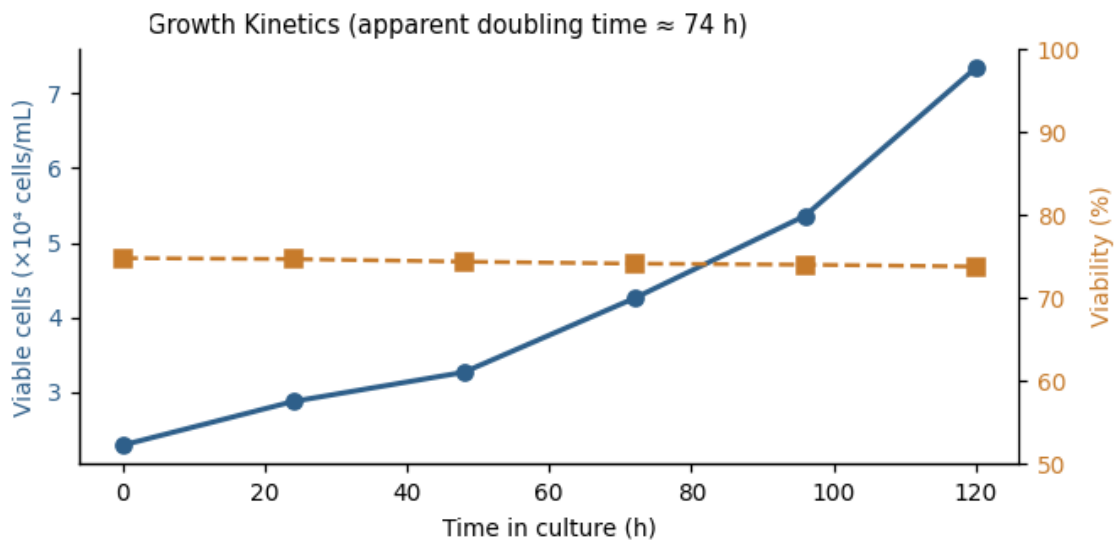


Figure 2. Growth curve (viable cell density, left axis) and viability trend (right axis).

#### 5. Functional Validation Assay

**Mixed lymphocyte reaction (MLR):** Allogeneic T-cell stimulation assay to confirm antigen-presenting capacity, read out by T-cell proliferation (CFSE dilution).

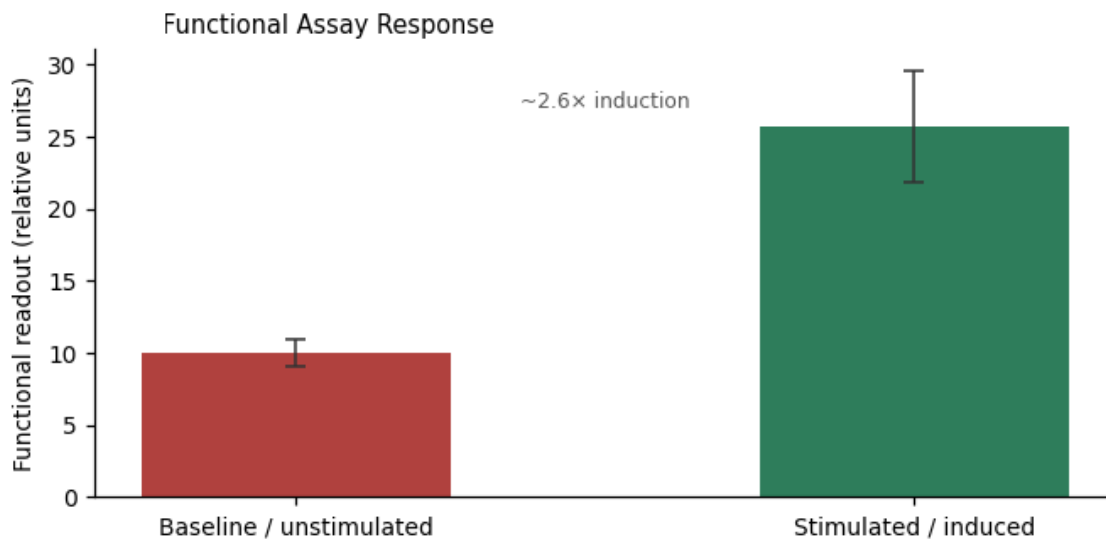


Figure 3. Functional assay readout — ~2.6× induction over baseline.

## 6. QC Acceptance Criteria

| Acceptance Criterion                     | Result                        |
|------------------------------------------|-------------------------------|
| ≥70% CD11c+/HLA-DR+ by flow cytometry    | PASS                          |
| Positive allostimulatory activity in MLR | PASS                          |
| Apparent population doubling time        | ≈ 74 hours                    |
| Functional assay outcome                 | ~2.6× induction over baseline |

## 7. Handling & Culture Notes

- Refer to the product-specific Certificate of Analysis and datasheet for validated culture medium, seeding density, and passaging recommendations.
- As with any primary cell or cell line, confirm mycoplasma-negative status, expected morphology by phase-contrast microscopy, and viability by trypan blue or equivalent dye-exclusion assay at each passage before use in downstream assays.