

Primary Rabbit Microglia Cells (MC)

SKU: CDS10848 | Category: Primary Cells — Rabbit

Validation & Biomarker Data Guide • Lineage classification: Microglia

1. Product Overview

Primary Rabbit Microglia Cells (MC) is a primary cell product from rabbit Cerebral cortex for physiologically relevant in vitro studies. The product is particularly relevant to Nervous cell series and Microglia research. It can support research in cell physiology, signaling, metabolism, toxicology, drug response and cell-based assay development where a primary-cell model is preferred. Culture and passage conditions should follow the product-specific protocol. For research use only.

Primary tissue / source: Cerebral cortex | Growth type: Adherent Cells | Tumorigenic status: Normal Cells | Pack size: 1 x 0.5 million cells

2. Typical Applications

- Nervous cell series
- Microglia
- Cerebral and nervous systems

3. Identity & Phenotypic Marker Panel

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

Marker	Expected Result	Range
Iba1	Positive	75–96% positive
CD11b	Positive	70–93% positive
GFAP	Negative / low	≤10% (background)

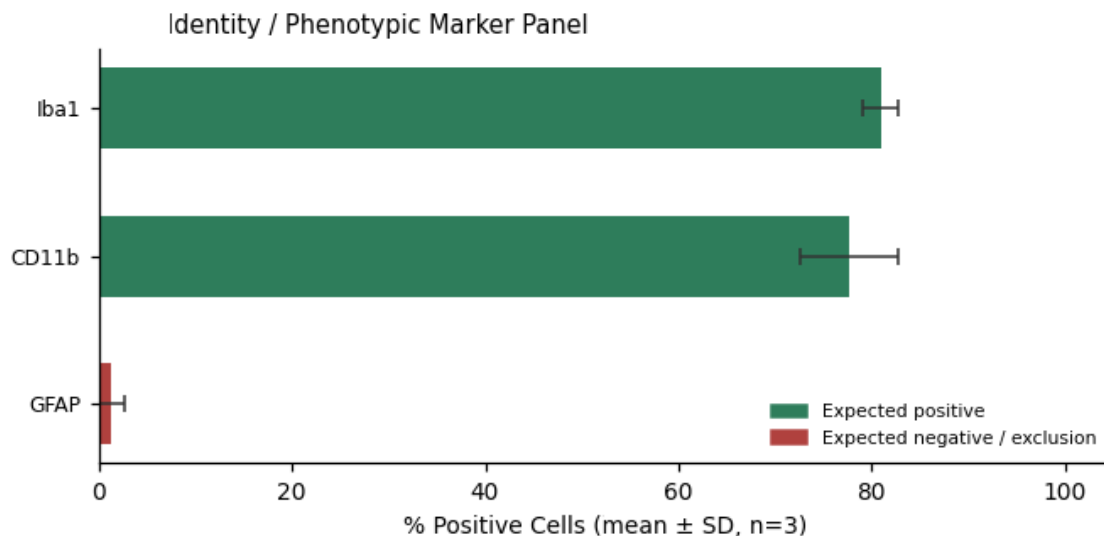


Figure 1. Marker expression profile (mean ± SD, n = 3 replicates).

4. Growth Kinetics & Viability

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

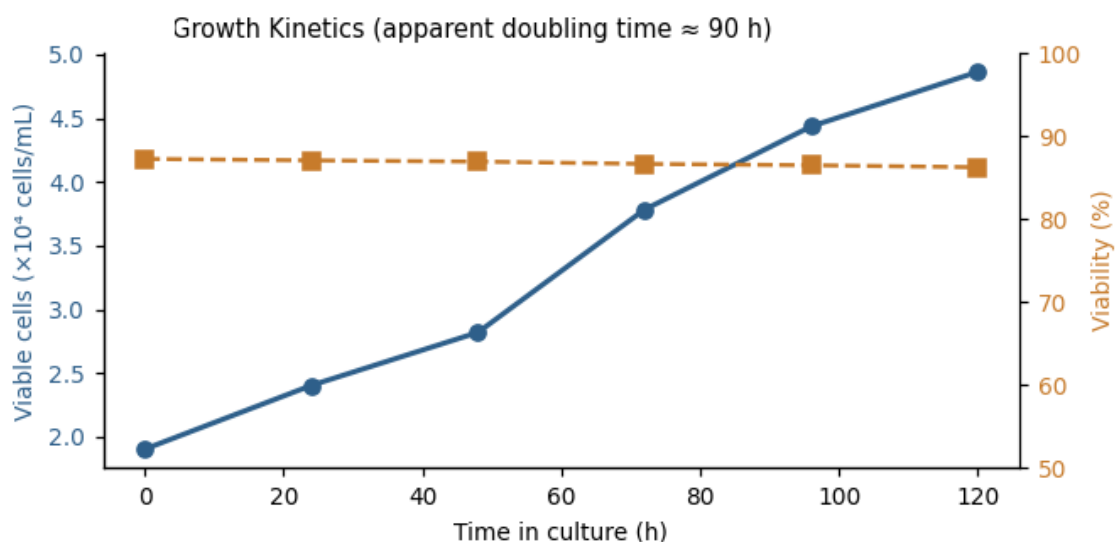


Figure 2. Growth curve (viable cell density, left axis) and viability trend (right axis).

5. Functional Validation Assay

Phagocytosis / cytokine assay: Bead/bioparticle phagocytosis assay and LPS-stimulated cytokine secretion (TNF- α /IL-6) by ELISA to confirm microglial functional activation.

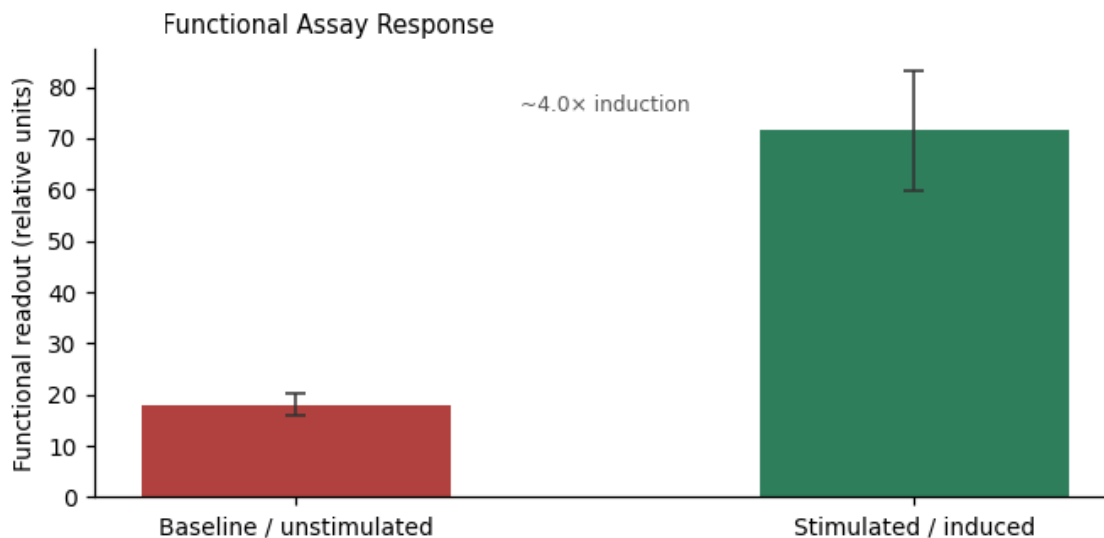


Figure 3. Functional assay readout — ~4.0x induction over baseline.

6. QC Acceptance Criteria

Acceptance Criterion	Result
≥70% Iba1+/CD11b+ by ICC	PASS
Positive phagocytic uptake and LPS-inducible cytokine response	PASS
Apparent population doubling time	≈ 90 hours
Functional assay outcome	~4.0x 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.