

Primary Rabbit Schwann Cells (rabbitSC)

SKU: CDS10818 | Category: Primary Cells — Rabbit

Validation & Biomarker Data Guide · Lineage classification: Schwann cell

1. Product Overview

Primary Rabbit Schwann Cells (SC) is a primary cell product from rabbit Sciatic nerve for physiologically relevant in vitro studies. The product is particularly relevant to Nervous cell series and Schwann cells 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: Sciatic nerve | Growth type: Adherent Cells | Tumorigenic status: Normal Cells | Pack size: 1 x 0.5 million cells

2. Typical Applications

- Nervous cell series
- Schwann cells
- Cerebral and nervous systems

3. Identity & Phenotypic Marker Panel

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

Marker	Expected Result	Range
S100	Positive	75–96% positive
p75NTR	Positive	60–90% positive
GFAP	Negative / low	≤15% (background)

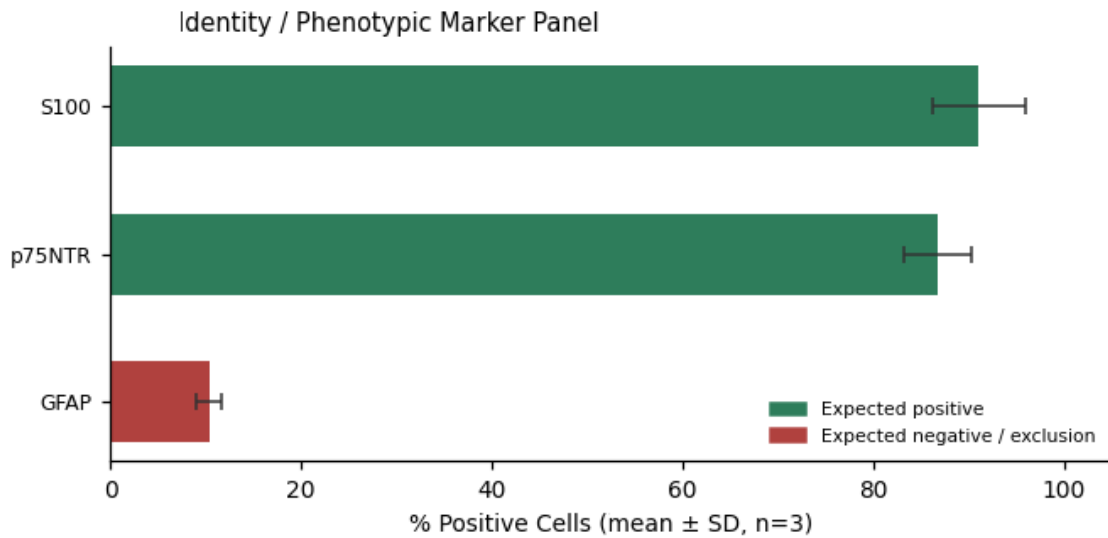


Figure 1. Marker expression profile (mean $\pm$ SD, n = 3 replicates).

4. Growth Kinetics & Viability

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

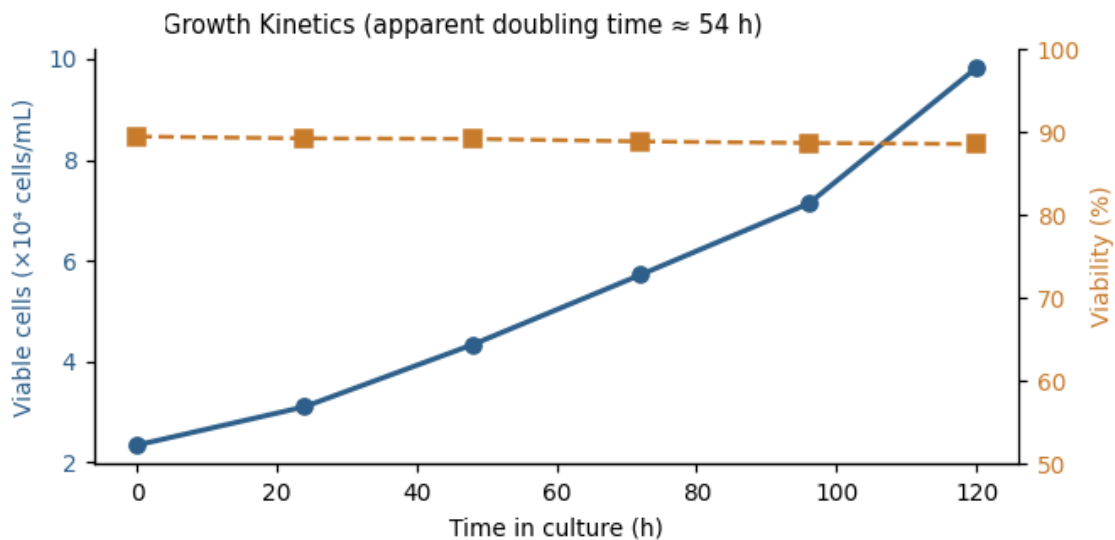


Figure 2. Growth curve (viable cell density, left axis) and viability trend (right axis).

5. Functional Validation Assay

Myelination co-culture assay: Co-culture with dorsal-root-ganglion neurons assessed for myelin segment formation (MBP staining) to confirm myelinating functional capacity.

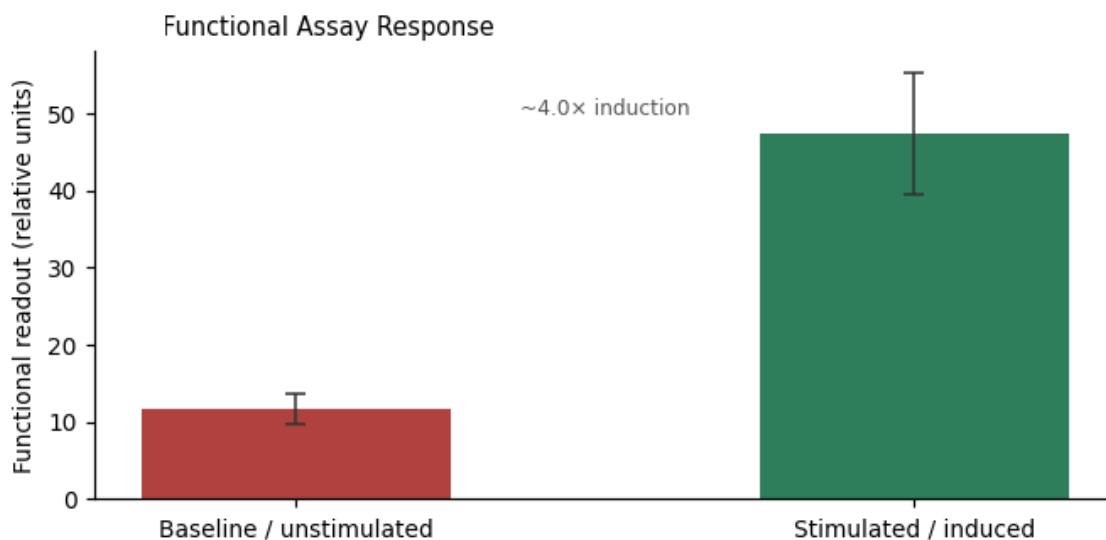


Figure 3. Functional assay readout — ~4.0x induction over baseline.

6. QC Acceptance Criteria

Acceptance Criterion	Result
≥70% S100+ by ICC	PASS
Bipolar/spindle morphology confirmed by phase-contrast imaging	PASS
Apparent population doubling time	≈ 54 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.