Primary Rabbit Cervical Epithelial Cells (CrEC)

SKU: CDS11178 | Category: Primary Cells — Rabbit

Validation & Biomarker Data Guide · Lineage classification: Epithelial cell

1. Product Overview

Primary Rabbit Cervical Epithelial Cells (CrEC) is a primary cell product from rabbit Cervix uteri for physiologically relevant in vitro studies. The product is particularly relevant to Female reproductive cell series and Epithelial 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: Cervix uteri | Growth type: Adherent Cells | Tumorigenic status: Normal Cells | Pack size: 1 x 0.5 million cells

2. Typical Applications

- Female reproductive cell series
- Epithelial cells
- Reproductive system

3. Identity & Phenotypic Marker Panel

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

Marker	Expected Result	Range
Pan-cytokeratin	Positive	85–99% positive
E-cadherin	Positive	75–97% positive
EpCAM	Positive	70–95% positive
Vimentin	Negative / low	≤15% (background)
CD45	Negative / low	≤3% (background)

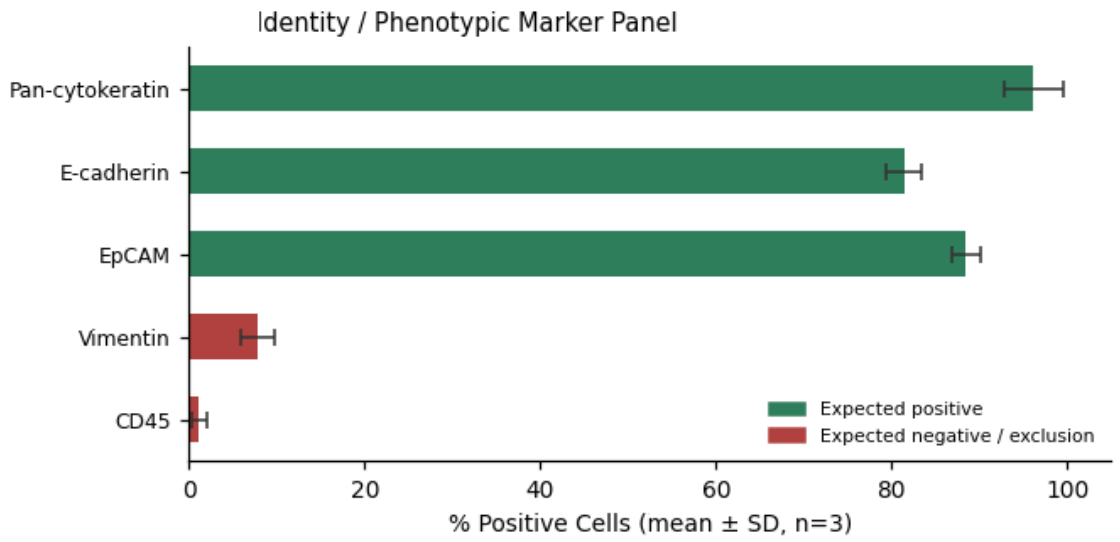

Figure 1. Marker expression profile (mean ± SD, n = 3 replicates).

4. Growth Kinetics & Viability

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

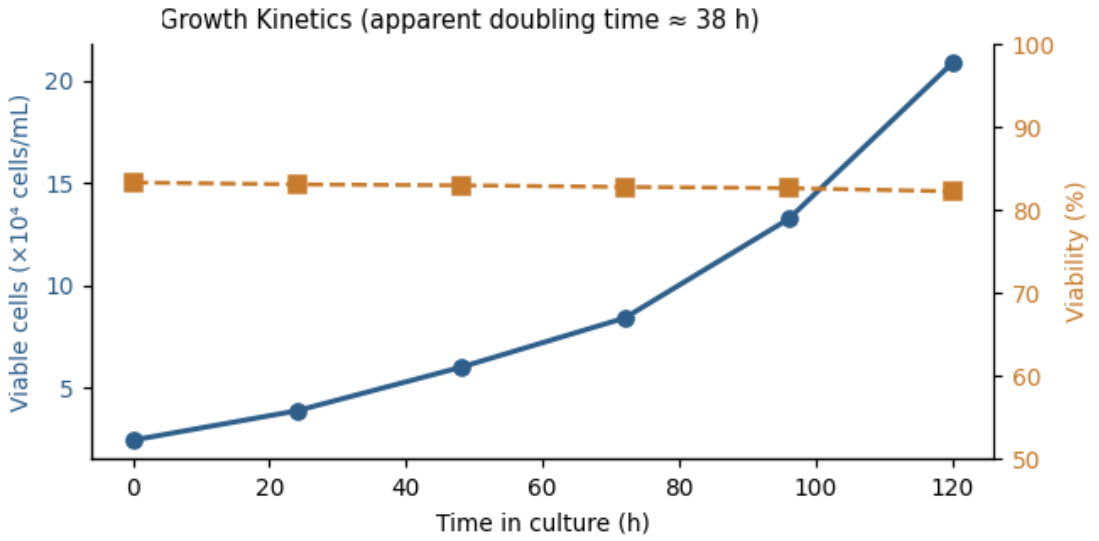

Figure 2. Growth curve (viable cell density, left axis) and viability trend (right axis).

5. Functional Validation Assay

Barrier integrity assay (TEER): Transepithelial electrical resistance (TEER) measurement across a confluent monolayer on Transwell inserts to confirm tight-junction/barrier formation.

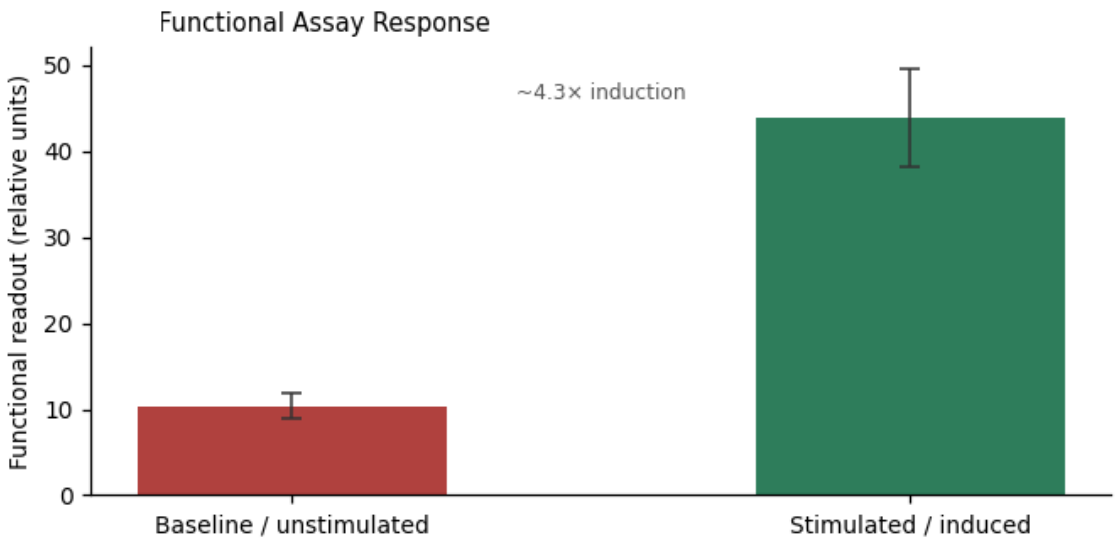

Figure 3. Functional assay readout — ~4.3× induction over baseline.

6. QC Acceptance Criteria

Acceptance Criterion	Result
≥85% pan-cytokeratin+ by ICC	PASS
TEER value within lineage reference range	PASS
Cobblestone monolayer morphology by phase-contrast imaging	PASS
Apparent population doubling time	≈ 38 hours
Functional assay outcome	~4.3× 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.