Primary Caprine Ovarian Fibroblasts (OF)

SKU: CDS11253 | Category: Primary Cells — Goat

Validation & Biomarker Data Guide · Lineage classification: Fibroblast

1. Product Overview

Primary Caprine Ovarian Fibroblasts (OF) is a primary cell product from caprine Ovary for physiologically relevant in vitro studies. The product is particularly relevant to Female reproductive cell series and Fibroblasts 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: Ovary | Growth type: Adherent Cells | Tumorigenic status: Normal Cells | Pack size: 1 x 0.5 million cells

2. Typical Applications

- Female reproductive cell series
- Fibroblasts
- Reproductive system

3. Identity & Phenotypic Marker Panel

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

Marker	Expected Result	Range
Vimentin	Positive	90–100% positive
CD90 (Thy-1)	Positive	70–95% positive
Pan-cytokeratin	Negative / low	≤5% (background)
CD31	Negative / low	≤3% (background)

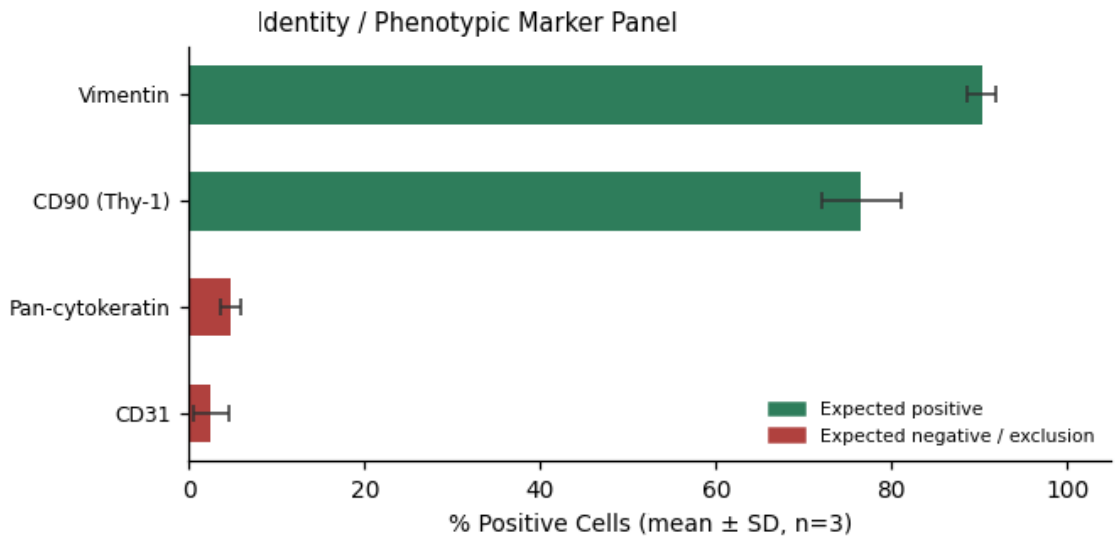


Figure 1. Marker expression profile (mean ± SD, n = 3 replicates).

4. Growth Kinetics & Viability

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

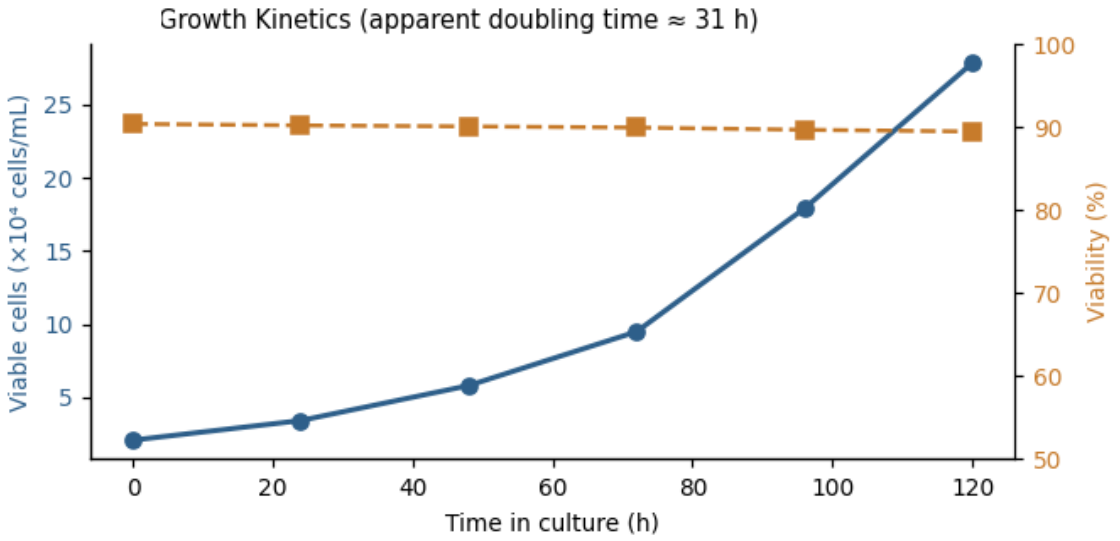


Figure 2. Growth curve (viable cell density, left axis) and viability trend (right axis).

5. Functional Validation Assay

Collagen gel contraction assay: Fibroblast-populated collagen lattice contraction over 48-72 h to confirm contractile/ECM-remodeling phenotype; alpha-SMA induction under TGF-β1 as secondary marker.

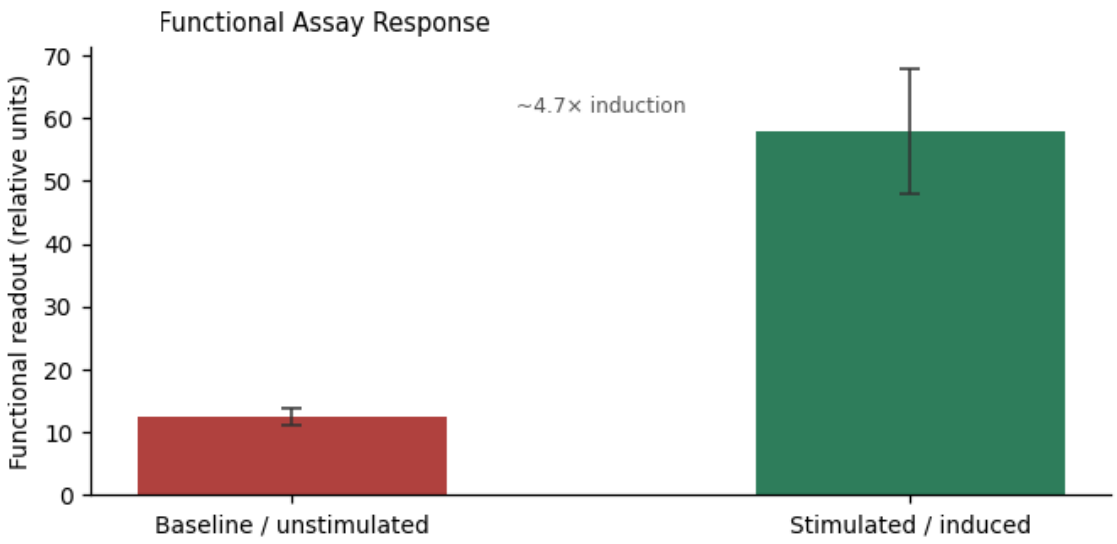


Figure 3. Functional assay readout — ~4.7× induction over baseline.

6. QC Acceptance Criteria

Acceptance Criterion	Result
≥90% Vimentin+ / cytokeratin- by ICC	PASS
Spindle-shaped adherent morphology confirmed by phase-contrast imaging	PASS
Negative for mycoplasma by PCR	PASS
Apparent population doubling time	≈ 31 hours
Functional assay outcome	~4.7× 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.