

# HTR-8/SVneo Human Villous Membrane Trophoblast Cell Line

SKU: CDS4798 | Category: Cell Lines — Normal and Non-Tumor Cell Lines

**Validation & Biomarker Data Guide** · Lineage classification: Suspension cell line (general)

## 1. Product Overview

HTR-8/SVneo Human Villous Membrane Trophoblast 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: Suspension 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 suspension cell line (general) products is shown below. Actual per-lot Certificates of Analysis should be consulted for verified identity data.

| Marker                                                   | Expected Result | Range             |
|----------------------------------------------------------|-----------------|-------------------|
| Lineage-specific surface marker panel (product-specific) | Positive        | 65–96% positive   |
| Adherent-lineage markers                                 | Negative / low  | ≤10% (background) |

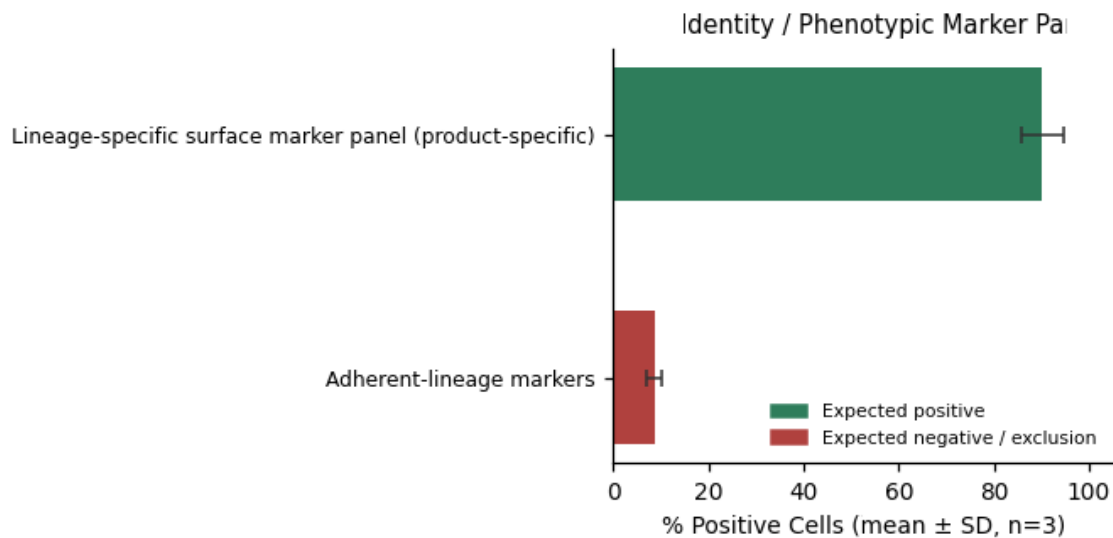


Figure 1. Marker expression profile (mean  $\pm$  SD, n = 3 replicates).

#### 4. Growth Kinetics & Viability

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

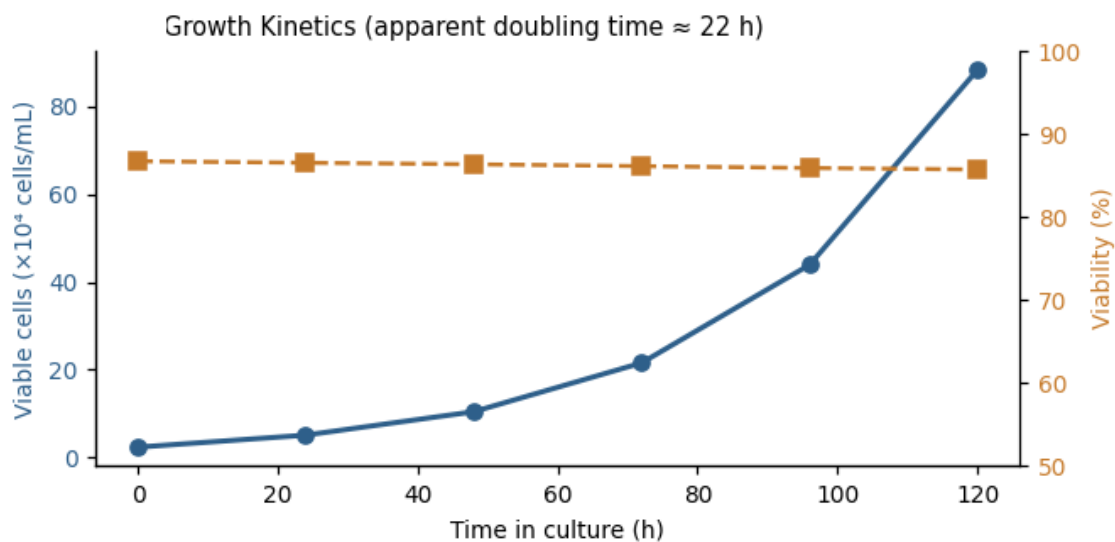


Figure 2. Growth curve (viable cell density, left axis) and viability trend (right axis).

#### 5. Functional Validation Assay

**Proliferation / functional assay:** Growth-curve/viability assay alongside a lineage-appropriate functional readout (cytokine secretion, cytotoxicity, or antibody titer as applicable).

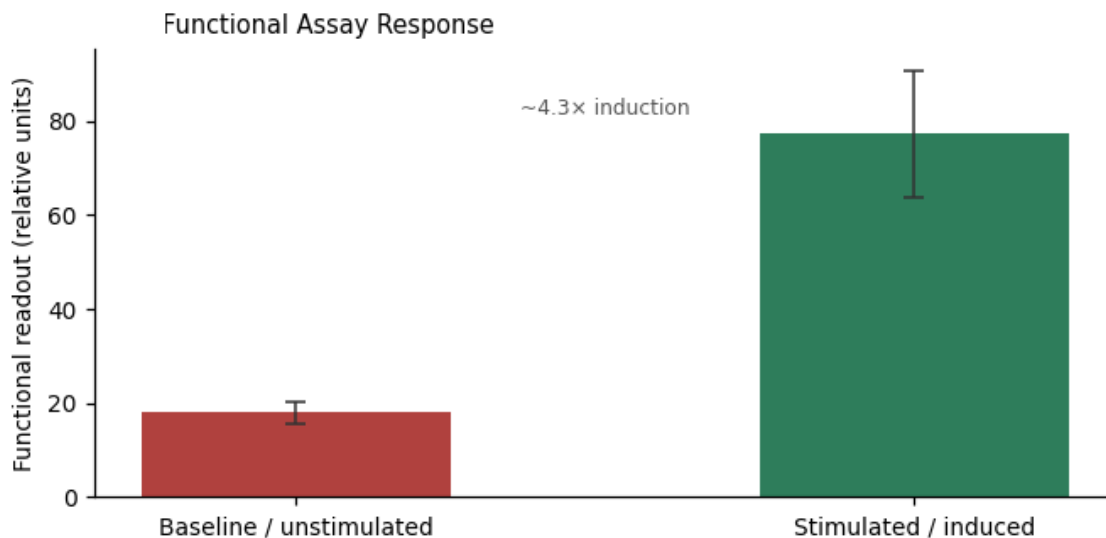


Figure 3. Functional assay readout — ~4.3x induction over baseline.

## 6. QC Acceptance Criteria

| Acceptance Criterion                                 | Result                        |
|------------------------------------------------------|-------------------------------|
| Marker panel consistent with lineage reference sheet | PASS                          |
| Negative for mycoplasma by PCR                       | PASS                          |
| Apparent population doubling time                    | ≈ 22 hours                    |
| Functional assay outcome                             | ~4.3x 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.