BE (2) - M17 Human Brain Neuroblastoma (Primary Originating in Bone Marrow)

SKU: CDS3709 | Category: Cell Lines — Cancer Cell Lines

Validation & Biomarker Data Guide · Lineage classification: Glioblastoma / brain tumor cell line

1. Product Overview

BE(2)-M17 Human Brain Neuroblastoma (Primary Originating in Bone Marrow) is a primary cell product from human tissue for physiologically relevant in vitro studies. 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.

Growth type: Adherent Cells | Tumorigenic status: Tumor 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 glioblastoma / brain tumor cell line products is shown below. Actual per-lot Certificates of Analysis should be consulted for verified identity data.

Marker	Expected Result	Range
GFAP (line-dependent)	Positive	0–85% positive
Nestin	Positive	40–85% positive
Ki-67	Positive	20–60% positive
Pan-cytokeratin	Negative / low	≤15% (background)

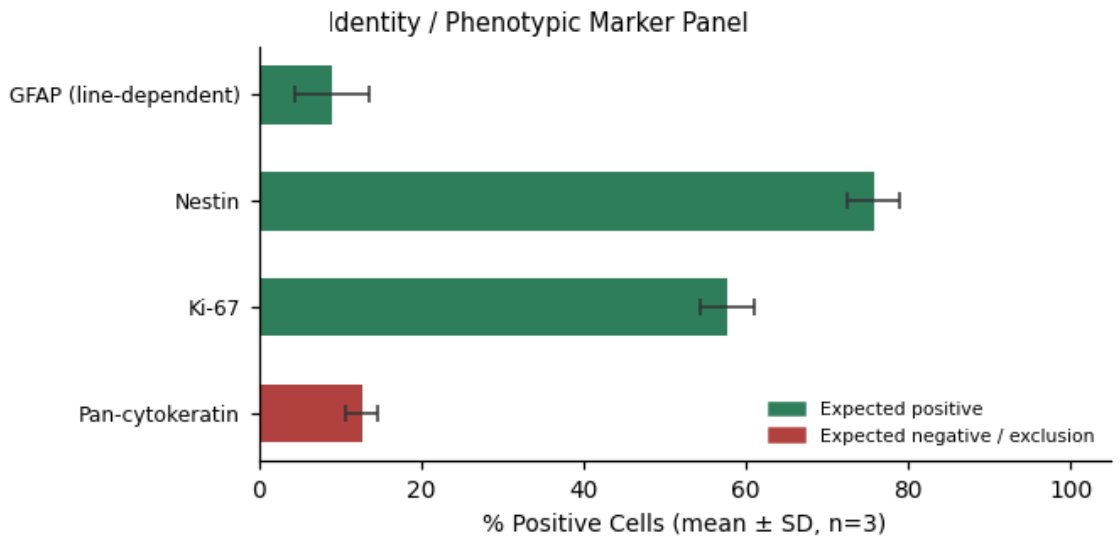


Figure 1. Marker expression profile (mean ± SD, n = 3 replicates).

4. Growth Kinetics & Viability

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

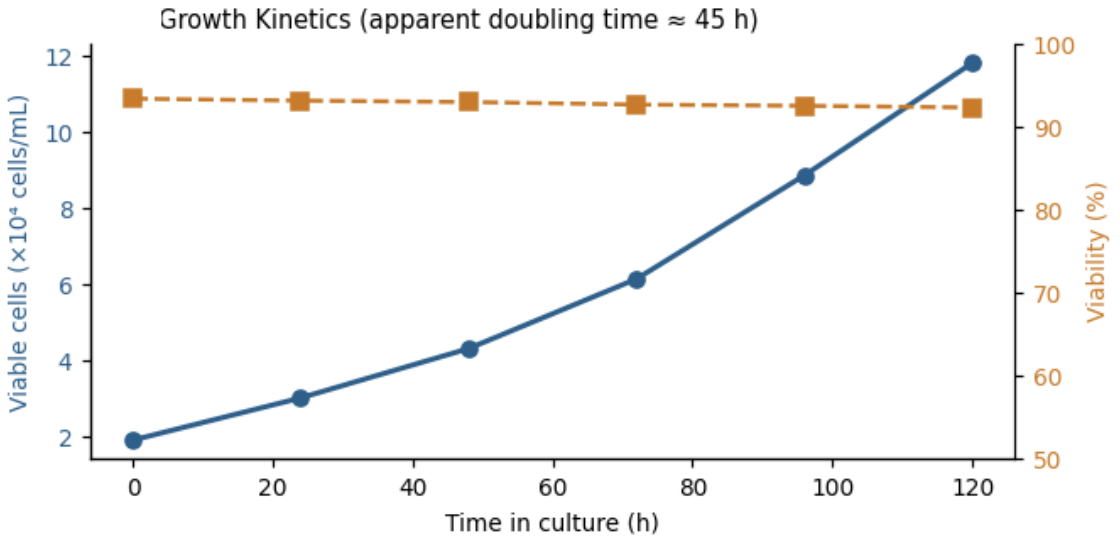


Figure 2. Growth curve (viable cell density, left axis) and viability trend (right axis).

5. Functional Validation Assay

Proliferation / invasion assay: MTT/CellTiter-Glo dose-response with temozolomide, plus transwell invasion assay to confirm invasive functional phenotype.

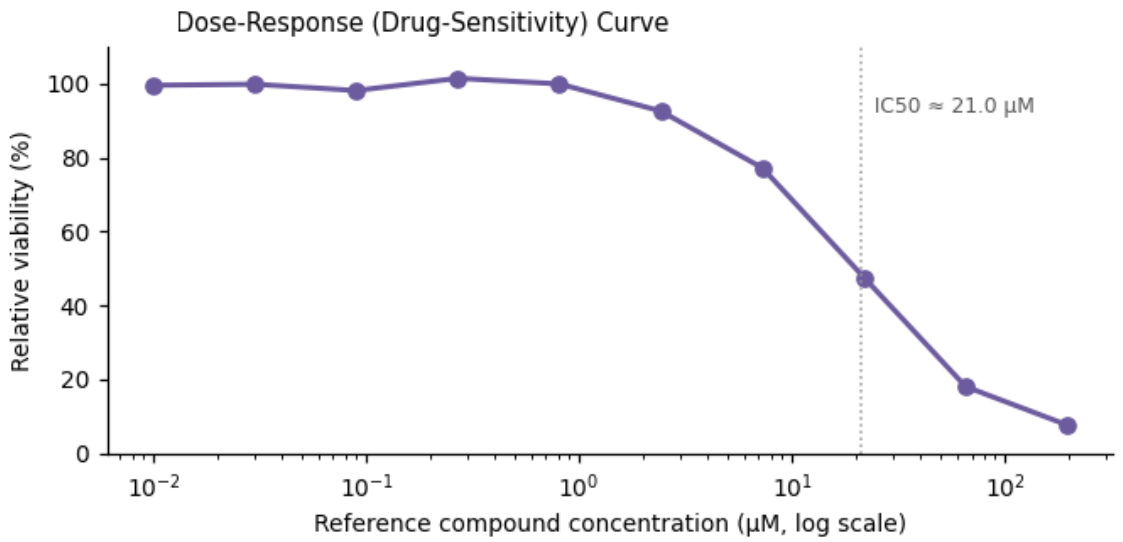


Figure 3. Functional assay readout — IC50 ≈ 21.0 µM.

6. QC Acceptance Criteria

Acceptance Criterion	Result
Authenticated by STR profiling	PASS
≥40% Nestin+ by ICC	PASS
IC50 within historical reference range for line	PASS
Apparent population doubling time	≈ 45 hours
Functional assay outcome	IC50 ≈ 21.0 µM

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.