# Melan-a Cell Line

Catalogue number: 153599 Sub-type: Continuous Images:

### Contributor

**Inventor:** Dorothy Bennett Institute: St George's University of London Images:

## **Tool details**

#### **\*FOR RESEARCH USE ONLY**

Name: Melan-a Cell Line

ols.org Alternate name: Melan-a Mouse Melanocyte Cell Line; Melan-a mouse cell line

#### Class:

#### Conjugate:

**Description:** The melan-a cell line is an immortal melanocyte cell line derived from embryonic mouse skin. It was the first established non-tumorigenic mouse melanocyte cell line and has become a widely used model for melanocytes studies. Melanocytes are pigment-producing cells located in the bottom layer of the skin's epidermis and in other tissues. Melan-a cells display the pigmentation and morphology typical of normal melanocytes, expressing both gp100 and the melanocyte marker Melan-A. They are diploid in chromosome number and syngeneic with C57BL mice and B16 melanoma sublines, facilitating comparative investigations. These cells are visibly pigmented, smaller than B16 melanoma cells and retain all tested characteristics of normal melanocytes, except senescence. Among retained features, they also display a proliferative response to cholera toxin in the presence of tetradecanoyl phorbol acetate (TPA). The availability of robust cellular models that reflect normal skin melanocytes, such as the melan-a cell line, is essential for studying the etiology and abnormalities of skin cancers and melanomas, allowing comparisons at a molecular and cellular level. **Purpose:** 

Parental cell: Mouse melanoblasts **Organism:** Mouse Tissue: Embryonic skin Model: Immortalised line; Non-tumorigenic in syngeneic and nude mice Gender: **Isotype: Reactivity:** Selectivity: Host:

Immunogen: Immunogen UNIPROT ID: Sequence: Growth properties: Production details: Derived from normal epidermal melanoblasts from trunk skin of embryonic day 18 C57BL mice, a black or nonagouti (a/a) mouse Formulation: **Recommended controls: Bacterial resistance:** Selectable markers: Additional notes:

# **Target details**

Target: Melanocyte

Cancer Tools.org Target alternate names:

Target background:

Molecular weight:

Ic50:

# **Applications**

Application: Cell culture; melanocyte biology studies Application notes: Cells should not be vortexed when thawing. As Melan-a cells proliferate fairly slowly it may take several days before flask is 80-85% confluence and ready to passage.

# Handling

Format: Frozen **Concentration:** Passage number: Growth medium: RPMI-1640, 10% FBS, 200 nM phorbol-12-myristate-13-acetate (TPA) Temperature: 37° C Atmosphere: 5% CO2 Volume: 1 ml Storage medium: RPMI-1640 medium with 10S and 10% DMSO using a slow freeze Mr. Frosty container Storage buffer: Storage conditions: Liquid Nitrogen Shipping conditions: Dry ice

### **Related tools**

**Related tools:** 

## **References**

erTools.org References: Initial characterization of an anti-actin monoclonal antibody (NH3) DOI: 10.1042/bst0160163