

# Bovine Type II Alveolar Epithelial (B2AE) cell line

**Catalogue number:** 157737

**Sub-type:**

**Images:**

## Contributor

**Inventor:** Diane Lee

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**Images:**

## Tool details

**\*FOR RESEARCH USE ONLY**

**Name:** Bovine Type II Alveolar Epithelial (B2AE) cell line

**Alternate name:**

**Class:**

**Conjugate:**

**Description:** Differentiates into Alveolar Type I (ATI)-like cells when cultured at air-liquid interface, generating a mixed population of Alveolar Type II (ATII) and ATI in a pseudostratified epithelial cell layer. Used in co-culture with bovine pulmonary arterial endothelial cells as a model of the bovine alveolus.

**Purpose:**

**Parental cell:**

**Organism:**

**Tissue:** Alveolus

**Model:** Immortalised Line

**Gender:**

**Isotype:**

**Reactivity:**

**Selectivity:**

**Host:**

**Immunogen:**

**Immunogen UNIPROT ID:**

**Sequence:**

**Growth properties:** Cobblestone. Fixed (2D), 3D (matrigel) or air-liquid interface (ALI)

**Production details:** Generated by the lentiviral transduction of Bmi1 and hTERT into primary bovine

alveolar type II epithelial cells at passage 1. Proliferation rate as for primary.

**Formulation:**

**Recommended controls:**

**Bacterial resistance:**

**Selectable markers:**

**Additional notes:**

## Target details

**Target:**

**Target alternate names:**

**Target background:**

**Molecular weight:**

**Ic50:**

## Applications

**Application:**

**Application notes:**

## Handling

**Format:** Frozen

**Concentration:**

**Passage number:**

**Growth medium:** Small airway growth medium (Lonza) or Small airway epithelial cell medium (Promocell). 95 % air/5 % CO<sub>2</sub>, 37°C humidified incubator. Subculture routine: 0.25 % trypsin/1 mM EDTA 5 minutes at 37°C. Neutralise with medium/10 % FBS. Spin, count and subculture 1:1000 dilution to minimum of 3 x 10,000/cm<sup>2</sup>. Yield at subculture: ~5 x 10,000/cm<sup>2</sup>.

**Temperature:**

**Atmosphere:**

**Volume:**

**Storage medium:**

**Storage buffer:**

**Storage conditions:**

**Shipping conditions:** Dry ice

## Related tools

**Related tools:** Bovine Alveolar Type II (BATII) cell line

# References

References:

CancerTools.org