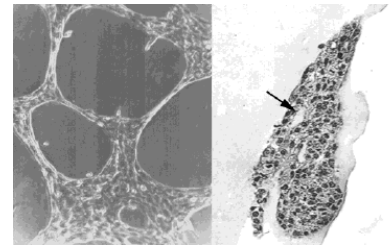


## MFLM-91U Cell Line

Catalog Number: AMFLM-91U  
Quantity: 1ml; 1 x 10<sup>6</sup> cells

The MFLM-91U cell line is an immortalized, isolated and cloned cell line, derived from mouse fetal lung mesenchyme. MFLM-91U cells express SV40 large T antigen and neomycin-resistance genes. The cell line was isolated at E19 and adapted to grow in serum free medium.



Dense centers with occasional lumen-like channels (arrow).

## Culture

UltraCulture (Biowhittaker) supplemented with 100 U/ml penicillin G, 100 U/ml streptomycin, 0.25 mg/ml amphotericin B and 2.0 mM glutamine; 5% CO<sub>2</sub>. To maintain EC phenotype, MFLM-91U are replated before reaching confluence.

## Organism/Strain/Morphology

Mouse, FVB/N Strain, Immature endothelial cell-like.

## Tumorigenic

Yes, in nu/nu mice injected subcutaneously with 5 x 10<sup>5</sup> to 1 x 10<sup>6</sup> viable MFLM cells.

## Supplied As

Frozen cells containing 5% DMSO, 95% fetal calf serum (v/v).

## Storage

Use cryopreserved cells to establish cultures immediately upon receipt. If stored prior to culture, it is preferable to store in the vapor phase of liquid N<sub>2</sub>. Note- storage prior to culture is likely to result in diminished recovery of viable cells.

## Characteristics

Cells express proteins associated with endothelial cell phenotype including CD34, PECAM-1, vonWillebrand factor, VEGFR1 (*flt1*), VEGFR2 (*flk-1*) and cell-surface recognition site for lectin GSL B4. By PCR analysis, MFLM-91U have mRNA transcripts for Tie-1, Tie-2, Ang-1 and Ang-2. The cells also express vimentin and low levels of smooth muscle alpha actin. MFLM-91U take up acetylated LDL and on Matrigel form extensive multi-cell, tubular networks.

## Depositors

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## Reference

Akeson, A.L., et al. Embryonic Vasculogenesis by Endothelial Precursor Cells Derived from Lung Mesenchyme. *Developmental Dynamics*, 217:11-23, 2000.