

LP-1 | 300321

Product description

Description

LP-1 is a human fibroblast cell line derived from a patient with a mutation in the FGFR3 gene. The cells are characterized by their ability to form colonies in soft agar and their resistance to anoikis. The mutation in FGFR3 is a constitutively active point mutation, which is associated with the disease Osteochondroma. LP-1 cells are used for research on the role of FGFR3 in cancer and for the development of targeted therapies.

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Organism Human

Tissue Fibroblast

Disease Osteochondroma

Applications Research on the role of FGFR3 in cancer and for the development of targeted therapies.

Synonyms LP1

Cell characteristics

Age 56 years

Gender Male

Morphology Fibroblast

Growth properties Anchorage dependent

References

Citation LP-1 (Cytion 300321)

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_0012

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Product information

Products IgG

Karyotype 46, XX, t(11;22)(p11;p11)

Media

Culture Medium IMDM, w: 4.5 g/L, w: 4 mM L-glutamine, w: 25 mM HEPES, w: 1.0 mM sodium pyruvate, w: 3.024 g/L NaHCO3

Supplements 20% FBS

Subculturing 1:2 to 1:10

Seeding density 7 x 10⁵ cells/cm²

Post-Thaw Recovery 24h

Freeze medium 10% FBS + 10% DMSO

- Thawing and Culturing Cells**
1. Thaw cells rapidly in a 37°C water bath.
 2. Centrifuge cells at 300 x g for 3 minutes.
 3. Resuspend cells in 15 ml of culture medium.
 4. Seed cells into a T25 flask at a density of 70% confluence.
 5. Incubate cells for 15-24 hours.
 6. Harvest cells for analysis.
 7. Store cells in liquid nitrogen.
 8. Thaw cells for future use.

