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significantly reduced tumorigenicity *in vitro* and *in vivo*. These cells, however, display characteristics of alternative telomere lengthening (ALT) mechanisms (i.e., heterogeneity of telomere lengths and the presence of distinct nuclear structures called ALT-associated promyelocytic leukemia bodies). The SK-LU-1 cells do not form tumors when injected into immunocompromised mice.

Source

This cell line was established in 1969 from a 60-year-old Caucasian female with adenocarcinoma of the lung.

Inventors

Chester M. Southam, MD, formerly at Sloan Kettering Institute, Memorial Sloan Kettering

Key References

Fogh J et al. (1977) Absence of HeLa cell contamination in 169 cell lines derived from human tumors. *Journal of the National Cancer Institute* 58: 209-214 (PubMed ID: [833871](#))

Lehman TA et al. (1991) p53 mutations, ras mutations, and p53-heat shock 70 protein complexes in human lung carcinoma cell lines. *Cancer Research* 51: 4090-4096 (PubMed ID: [1855224](#))

Brachner A et al. (2006) Telomerase- and alternative telomere lengthening-independent telomere stabilization in a metastasis-derived human non-small cell lung cancer cell line: effect of ectopic hTERT. *Cancer Research* 66: 3584-3592 (PubMed ID: [16585183](#))

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