

UCL93 - Normal human kidney cortical epithelial cell line

A patient-derived control cell line for studying normal kidney cell phenotype

UCL93

Category

Biological Materials

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The UCL93 cell line is an immortalised human kidney cell line, derived from healthy patient tissue.

Primary cells, isolated from surplus normal kidney tissue obtained at nephrectomy (performed for limited renal cell carcinoma), were cultured and transduced with retroviral vectors containing a temperature-sensitive SV40T antigen and the catalytic subunit of telomerase.

Along with the $\underline{OX161}$ ADPKD cell line, these cell lines are useful in vitro models to study normal and disease-specific ADPKD phenotypes or pathways.

Ordering

Particular attention should be paid when selecting the licence, and reviewing the associated T&Cs.

Available licences:

- 2 year restricted-use licence: Permitted use of the described cell line for a 2 year term. No cell line modifications are permitted (see licence T&Cs for more info)
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Keywords

UCL93, UCL-93, ADPKD, Autosomal Dominant Polycystic Kidney Disease, Kidney Cells, Renal, immortalised, immortalized

Further information

Further information on the research group and providing researcher may be found at:

https://www.sheffield.ac.uk/medicine/people/iicd/albert-cm-ong

Associated journal references

Streets AJ, Newby LJ, O'Hare MJ, Bukanov NO, Ibraghimov-Beskrovnaya O, Ong AC. Functional analysis of PKD1 transgenic lines reveals a direct role for polycystin-1 in mediating cell-cell adhesion. J Am Soc Nephrol. 2003 Jul;14(7):1804-15.

https://doi.org/10.1097/01.ASN.0000076075.49819.9B

E. Parker, L.J. Newby, C.C. Sharpe, S. Rossetti, A.J. Streets, P.C. Harris, M.J. O'Hare, A.C.M. Ong. Hyperproliferation of PKD1 cystic cells is induced by insulin-like growth factor-1 activation of the Ras/Raf signalling system. Kidney International. 2007; 72(2): 157-165.

https://doi.org/10.1038/sj.ki.5002229

Lannoy M, Valluru MK, Chang L, Abdela-Ali F, Peters DJM, Streets AJ, Ong ACM. The positive effect of selective prostaglandin E2 receptor EP2 and EP4 blockade on cystogenesis in vitro is counteracted by increased kidney inflammation in vivo. Kidney Int. 2020 Aug;98(2):404-419. doi: 10.1016/j.kint.2020.02.012. Epub 2020 Mar 6. PMID: 32622526.

https://doi.org/10.1016/j.kint.2020.02.012

Streets AJ, Prosseda PP, Ong AC. Polycystin-1 regulates ARHGAP35-dependent centrosomal RhoA activation and ROCK signaling. JCI Insight. 2020 Aug 20;5(16):e135385.

https://doi.org/10.1172/jci.insight.135385