

Wilms' tumour 17.94 Cell Line

Catalogue number: 153333

Sub-type:

Images:

Contributor

Inventor: Keith Brown

Institute: University Of Bristol

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Wilms' tumour 17.94 Cell Line

Alternate name:

Class:

Conjugate:

Description: Wilms' tumor 17.94 Cell Line is an anaplastic Wilms' tumor (WT) cell line, which expressed NCAM, SALL1, and phenotypic features expected of metanephric blastema-derived cells. In Brown et al., 2005 treatment of 17.94 cells with 12-O-Tetradecanoylphorbol 13-acetate caused morphological changes, which led to reduced NCAM and SALL1 expression, but expression of vimentin was maintained. Wilms' tumor 17.94 Cell Line contains a TP53 mutation but lacks mutations in WT1, WTX, or CTNNB1, other genes involved in WT pathogenesis. The cells demonstrate no loss of heterozygosity at 7p, 11p, or 16q although DNA hypermethylation was detected at several loci, including the H19 differentially methylated region and at the PCDH@ gene clusters at 5q31.

Purpose:

Parental cell:

Organism: Human

Tissue: Kidney

Model: Tumour line

Gender:

Isotype:

Reactivity:

Selectivity:

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details: Established from the nephrectomy specimen of a large lobulated Wilms' tumor of a 4-year-old girl; cells were described to express NCAM, SALL1, and CITED1, and to contain a TP53 mutation. Freeze in 70% medium, 20% FBS, 10% DMSO

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: 80% Dulbecco's MEM + 20% h.i. FBS at 37°C with 5% CO₂. Seed out at ca. 0.5-1 x 10⁶ cells/25 cm² flask; split semi-confluent culture 1:2 once a week using TrypLE Express.

Temperature:

Atmosphere:

Volume:

Storage medium: 70% medium, 20% FBS, 10% DMSO

Storage buffer:

Storage conditions:

Shipping conditions: Dry ice

Related tools

Related tools:

References

References: Franks et al. 1984. Br J Cancer. 49(4):423-9. PMID: 6324837. ; Ultrastructural tumour differentiation and organ specificity in high and low metastatic lines from a mouse lung carcinoma.

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