

UB-UE1 Cell Line

Catalogue number: 153624

Sub-type:

Images:

Contributor

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Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: UB-UE1 Cell Line

Alternate name: UB-UE1; UB/UE-1; University of Bristol/Utricular Epithelium-1; Utricular Epithelium cell line number 1

Class:

Conjugate:

Description: Derived from vestibular epithelium (utricle macula) using thermolysin treatment and dissection to ensure origin from sensory epithelial supporting cells at post-natal day P2. At this stage the supporting cells are normally post-mitotic but retain the ability to differentiate as sensory hair cells and/or supporting cells. UB/UE-1 was characterised by timed expression under differentiating conditions in vitro of a combination of gene and protein markers for epithelial cells and for inner ear sensory cells. These include Cytokeratin, Vimentin, Myosin VIIa, Myosin VI, Brn3c, alpha9AChR and a combination of functional ion channels (see references). Screened with Affymetrix mouse Micro-arrays. The cells differentiate neonatal stage hair cell and supporting cell phenotypes under differentiating conditions in vitro

Purpose:

Parental cell: Pure utricular sensory epithelia of 2-day old immortomouse pups

Organism: Mouse

Tissue:

Model: Immortalised Line

Gender:

Isotype:

Reactivity:

Selectivity:

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:
Growth properties:
Production details:
Formulation:
Recommended controls:
Bacterial resistance:
Selectable markers:
Additional notes:

Target details

Target:

Target alternate names:

Target background:

Molecular weight:

Ic50:

Applications

Application: Inner ear development; Gene expression and function of inner ear-specific genes; In vitro screening for gene activation and promoter analysis; Ototoxicity studies (prescribed drugs and agents that ameliorate their affects)

Application notes:

Handling

Format: Frozen

Concentration:

Passage number:

Growth medium: MEM with 10% FCS, 50Units/ml γ -IFN, L-glutamine,

Temperature: 33° C

Atmosphere:

Volume: 1 ml

Storage medium:

Storage buffer:

Storage conditions: Liquid Nitrogen

Shipping conditions: Dry ice

Related tools

Related tools:

References

References: Fritzsche et. al. Int J Mol Sci. 2022 May 21, 23(10):5780. PMID: 35628594; Clough et al. 2004. Biochem Biophys Res Commun. 324(1):372-81. PMID: 15465029; Jagger et al. 2000. J Physiol. 527(Pt 1):49-54. PMID: 10944169; Jagger et al. 1999. Pflugers Arch. 438(1):8-14. PMID: 10370081; Rivolta et al. 1998. Proc Biol Sci. 265(1406):1595-603. PMID: 9753783

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