

hTERT-RPE1 mRuby-APC15 Cell Line

Catalogue number: 151710

Sub-type:

Images:

Contributor

Inventor: Jonathon Pines

Institute: University of Cambridge

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: hTERT-RPE1 mRuby-APC15 Cell Line

Alternate name:

Class:

Conjugate:

Description: The hTERT-RPE1 mRuby-APC15 Cell Line is a tet-inducible APC15 reporter cell line. APC15 is a component of the human cell cycle Anaphase promoting complex/cyclosome (APC/C). It is required for progression from metaphase during cell cycle. The uncharacterised open reading frame C11orf51 has been identified in a systematic proteomic analysis of APC/C purified from HeLa cell extracts. Human C11orf51 is conserved in vertebrates and invertebrates and has homology to Schizosaccharomyces pombe APC15 (PM gene ID: 2540655), and Schizosaccharomyces cerevisiae Mnd2 (PM gene ID: 854843).

Purpose:

Parental cell: hTERT-RPE1

Organism: Human

Tissue: Eye

Model: Transgenic

Gender:

Isotype:

Reactivity:

Selectivity:

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details:

APC15 was amplified by PCR from a full length cDNA clone (ORFeome clone 100066673). Tetracycline inducible cell lines expressing APC15 IRES2 mRuby were generated using the FLIP in system and a modified pCDNA5/FRT/TO vector. The parental tetracycline inducible RPE cell line was created by random integration of an FRT site and a Tet repressor gene into hTERT RPE1 cells followed by selection of a clone that showed high levels of gene expression repression in the absence of tetracycline.

Formulation:

Recommended controls:

Bacterial resistance:

Selectable markers:

Additional notes:

Target details

Target: APC15

Target alternate names:

Target background:

Molecular weight:

Ic50:

Applications

Application:

Application notes:

Handling

Format: Frozen

Concentration:

Passage number:

Growth medium: F12/DMEM (1:1) media supplemented with 10% FCS, sodium bicarbonate, glutamate and penicillin/streptavidin.

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer:

Storage conditions:

Shipping conditions: Dry ice

Related tools

Related tools:

References

References: Mansfeld et al. 2011. Nat Cell Biol. 13(10):1234-43. PMID: 21926987. ; APC15 drives the turnover of MCC-CDC20 to make the spindle assembly checkpoint responsive to kinetochore attachment.

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