Venus-Mad2 Reporter Cell Line [RPE1 Venus-Mad2/+ KI clone #1]

Catalogue number: 153465

Sub-type: Images:

Contributor

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Images:

Tool details

*FOR RESEARCH USE ONLY

Name: Venus-Mad2 Reporter Cell Line [RPE1 Venus-Mad2/+ KI clone #1]

Alternate name: MAD2L1

Class:

Conjugate:

Description: Somatic knock-in reporter cell line with endogenous expression of Mad2 fused to the yellow fluorescent protein Venus (Venus-Mad2 fusion protein). Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cell line functions as a cell cycle reporter across the metaphase-to-anaphase transition of the cell cycle. See also the Cyclin A2 and Cyclin B1 versions of these cell lines for a broader analysis of the different phases of the cell cycle. This cell line is an endogenous reporter for Mad2 levels and activity.

ools.org

Purpose:

Parental cell: RPE1 Organism: Human

Tissue: Eye **Model:** Reporter

Gender: Isotype: Reactivity: Selectivity: Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details: To generate the cell line recombinant adenovirus-associated virus (rAVV)mediated gene targeting was used to fuse the yellow fluorescent protein (Venus) ORF to the 5' of exon 1 of one allele of the MAD2L1 gene. The Mad2 was tagged at its N-terminus because a GFP-Mad2 fusion protein had previously been demonstrated to be functional in Drosophila.

Formulation:

Recommended controls: Bacterial resistance: Selectable markers: Additional notes:

Target details

Target: Mad2

Target alternate names: Cancer Tools.org

Target background:

Molecular weight:

Ic50:

Applications

Application:

Application notes:

Handling

Format: Frozen Concentration: Passage number:

Growth medium: F12/DMEM (Sigma: D6241) + 2mM GlutaMAX?(Invitrogen), 10% Foetal Bovine

Serum (FBS) + 0.348% sodium bicarbonate; 37??°C; 5% CO2.

Temperature: Atmosphere: Volume:

Storage medium: Storage buffer:

Storage conditions: Liquid Nitrogen

Shipping conditions: Dry ice

Related tools

Related tools: Cyclin B1-Venus Reporter Cell Line [RPE1 cycB1-venus/+ KI clone 20G11]; Cyclin A2-Venus Reporter Cell Line [RPE1 cycA2-venus/+ KI clone D6]; Ruby-Mad2 Reporter Cell Line

References

References: Collin et al., 2013. Nat Cell Biol. 15(11):1378-85. PMID: 24096242

