

# **Product description**

KPAR1.3 cells (also called KPAR) are a single cell clone derived from a cell line isolated from a lung tumor of KRASLSL-G12D/+; Trp53fl/fl; Rosa26A3Bi; Rag1-/- mice. Although cell line is derived from a heterozygous KRAS-G12D/WT model, the cell line is homozygous for the mutation.

Name: KPAR1.3

Organism: Mouse

Tissue: Lung

**Growth properties:** Adherent

Model: Mutant

Model description: Single cell clone from a cell line isolated from KRASLSL-G12D/+; Trp53fl/fl; Rosa26A3Bi;

Rag1-/- mouse (KPAR) lung tumors.

**CRISPR Edited: No** 

**Production details:** Single cell clone from a cell line isolated from KRASLSL-G12D/+; Trp53fl/fl; Rosa26A3Bi;

Rag1-/- mouse (KPAR) lung tumors.

# Contributor(s)

Inventor: Inventors: Julian Downward, Jesse Boumelha, Sophie de Carne

Institute: The Francis-Crick Institute

### **Properties**

Product format: Frozen

#### Unpacking and storage:

- 1. Check all containers for leakage or breakage.
- 2. Remove the frozen cells from the dry ice packaging and immediately place the cells at a temperature below -130°C, preferably in liquid nitrogen vapor, until ready for use.

**Recommended medium:** DMEM supplemented with 10% FCS, 4 mM I-glutamine, penicillin (100 U/ml), and streptomycin (100 mg/ml)

Subculture: Split 1:12 - 1:15 twice a week

Culture conditions: 37.0°C ± 1.0°C incubator with 5.0% ± 1.0% CO<sub>2</sub>

# **Handling instructions**

1. Please ensure that vials are frozen when received, and store at <-130 °C long term. When removing frozen cells from storage, it is important to minimize exposure to room temperature (15 - 25°C). If not proceeding directly to thawing, place the cells on dry ice or in a liquid nitrogen container.

# KPAR1.3 cell line Catalog #161803



- 2. **Do not thaw at room temperature.** To thaw, swirl the vial quickly in a 37 °C water bath with O-ring and cap above the water to avoid contamination. Remove from the water bath with a small ice pellet remaining (this should not take more than 2 minutes) and wipe the exterior with 70% ethanol or isopropanol before transferring to a biosafety cabinet. Further steps should be conducted under aseptic conditions.
- 3. We strongly recommend that the volume of cell suspension is measured at this point, and a 20 uL aliquot be removed for a viable cell count using trypan blue or similar dye. This ensures that provided cells are viable, and the cell count can be used to determine volume of growth medium to be added to the cell suspension.
- 4. These cells are especially sensitive to centrifugation immediately post-thaw. We recommend adding the thawed culture to 4 mL of prewarmed recommended medium in a T-25 culture flask and changing the medium after the cells have attached either later in the day or the next morning. Significant cell death is expected at this point. Once the cells have revived, they can be centrifuged and subcultured.

#### References

- Boumelha et al. 2022. Cancer Research. 82(19):3435-3448. PMID: 35930804
- Boumelha et al. 2024. Cancer Research. 84(14):2231–2246. PMID: 38635884

#### **Material Citation**

If use of this material results in a scientific publication, please cite the material in the following manner: KPAR1.3 cell line, was invented by Julian Downward, Jesse Boumelha, & Sophie de Carne (CancerTools.org #161803).

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