

## Data sheet

### **Primary pig retinal pigment epithelial cells (PP-RPE)**

**Catalog #:** w1-10001

**Lot #:** 150428    **Cell number:** 5 x 10<sup>5</sup> cells /ml

**Recommended Medium:** PRPE growth medium (Catalog#: w1-10002).

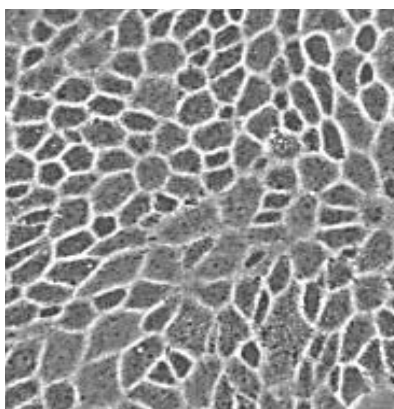
**Storage:** Upon receiving, directly and immediately transfer the cells from dry ice to liquid nitrogen and keep the cells in liquid nitrogen until they are needed for experiments.

**Shipping:** Dry ice.

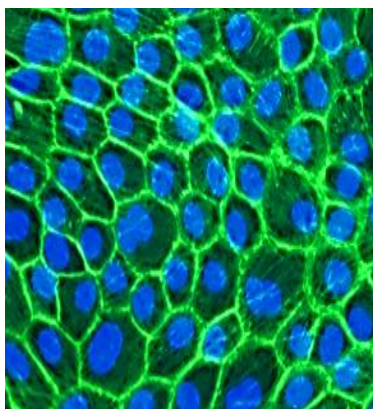
**Description:** Our well-characterized primary pig retinal pigment epithelial cells (PP-RPE) were isolated and purified from pig retina. The PP-RPE confluent cultures maintain characteristic polygonal morphology and polarization. They express specific RPE molecular markers (such as RPE65, PEDF, CRALBP, BEST1, OTX2, MITF, CST3, CFH and TIMP3, etc.).

**Application:** Useful for drug screening, drug delivery, cytotoxicity in developing therapeutics for dry AMD, wet AMD and other retinal diseases and also ideal for basic research in RPE biology. This is the only commercially available mammalian RPE cell type that retains *in vivo* properties comparing with other human / non-human RPE cell lines.

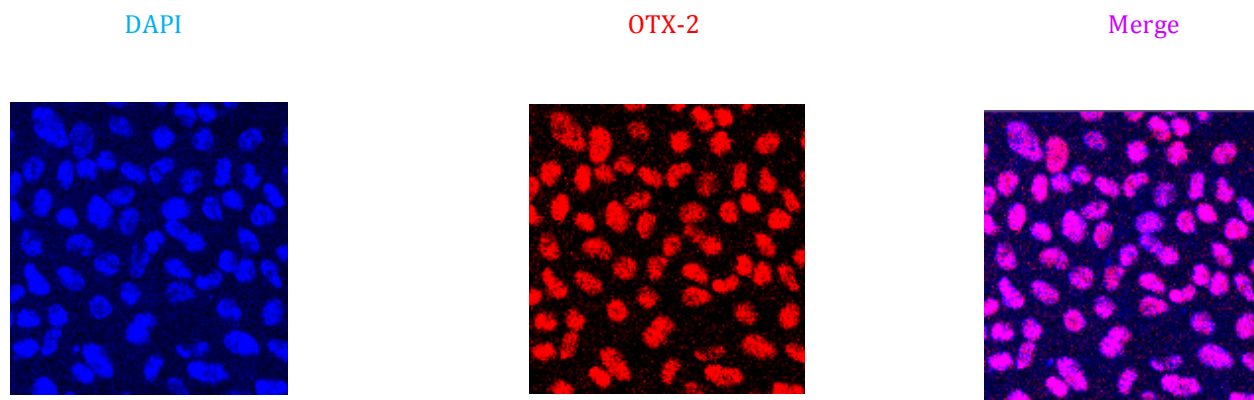
### **Quality Assurance**



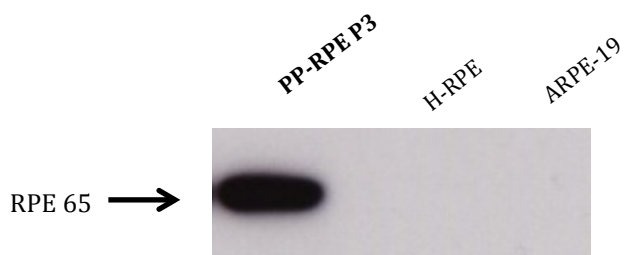
PP-RPE, phase contrast image



PP-RPE, show F-actin (green) and nuclei (blue)



OTX-2 (orthodenticle homeobox 2) is a transcription factor that maintains the status of RPE cell type.



Western analysis of PP-RPE cell lysate, probed with RPE 65 antibody (H-RPE, human RPE)