

P20222

Podocytes are specialized epithelial cells that cover the outer surfaces of glomerular capillaries, making up the epithelial lining of Bowman's capsule. This capsule filters the blood, retaining large molecules such as proteins while smaller molecules such as water, salts, and sugars are filtered as the first step in the formation of urine.

Podocytes are polarized and highly differentiated cells in which vesicular transport, partly driven by Rab GTPases, is a relevant process. They are injured in various forms of renal disease: the extents of this injury and its reversibility have major implications for treatment and prognosis.

Podocytes play a key role in the prevention of proteinuria in the healthy situation, are important targets of injury in a variety of renal diseases and are important determinants of outcome.



GREEN FLUORESCENT HUMAN KIDNEY PODOCYTES

Product Type: Green TTFLUOR HKP

Catalog Number: P20222

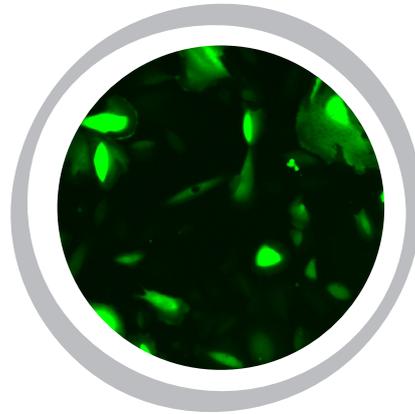
Cell Type: Human Kidney Podocytes

Fluorescent Protein: turboGFP

Number of cells: >5x10⁵ cells (cryopreserved vials)

Storage: Liquid Nitrogen

Recommended Medium: Epithelial Cell Medium Kit (Ref: P60106)



Green TTFLUOR HKP are green fluorescent human primary podocytes, which have been developed through transfection with tGFP expression vector into the cell genome. Cells are expressing the green fluorescent protein gene sequences as free cytoplasmatic protein.

About turboGFP protein

tGFP is an improved variant of the green fluorescent protein CopGFP cloned from copepoda *Pontellina plumata* (Arthropoda; Crustacea; Maxillopoda; Copepoda). It possesses bright green fluorescence (excitation/emission max = 482/502 nm) that is visible earlier than fluorescence of other green fluorescent proteins. TurboGFP is mainly intended for applications where fast appearance of bright fluorescence is crucial. It is specially recommended for cell and organelle labeling and tracking the promoter activity.

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