



Recombinant Protein Technical Manual

Recombinant Rat COL4A3 Protein (Fc Tag)

RPES4209

Product Data:

Product SKU: RPES4209

Size: 20µg

Species: Rat

Expression host: HEK293 Cells

Uniprot: NP_001129231

Protein Information:

Molecular Mass: 55.2 kDa

AP Molecular Mass: 59 kDa

Tag: N-Fc

Bio-activity:

Purity: > 85 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per µg of the protein as determined by the LAL method

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile PBS, pH 7.4

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: COL4A3

Immunogen Information:

Sequence: Gly1426-His1670

Background:

COL4A3 is a major structural component of basement membranes. It is composed of 3 alpha subunits, which are encoded by 6 different genes, alpha 1 through alpha 6. Each of these alpha subunits can form a triple helix structure with 2 other subunits to form COL4A3. Autoantibodies bind to the collagen molecules in the basement membranes of alveoli and glomeruli can cause goodpasture syndrome. COL4A3 is also linked to an autosomal recessive form of alport syndrome. COL4A3 is organized in a head-to-head conformation and each gene pair shares a common promoter.