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(54) Title: METHOD FOR DIFFERENTIATING EMBRYONIC STEM CELLS INTO CELLS EXPRESSING AQP-1

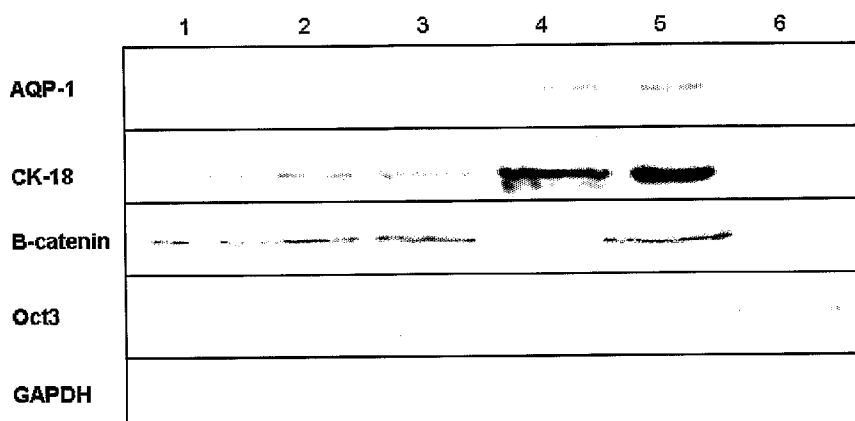


FIGURE 3

(57) Abstract: The present invention relates to methods of differentiating a human embryonic stem (ES) cell into a cell, specifically a renal epithelial cell, expressing AQP-I. The methods disclosed comprise culturing human ES cells in a renal specific medium in the presence of an extracellular matrix molecule. The cells produced according to said method can be used to treat renal related disorders such as renal failure, nephrosis, Bright's disease and glomerulitis.

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