

Resource Summary Report

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Immunohistochemical staining of heparan sulfate (HS) and collagen type XVIII (col18) core proteins in islet beta cells of formalin-fixed human pancreas and isolated human islets

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Protocol Information

URL: <https://dx.doi.org/10.17504/protocols.io.bkqykvxw>

Authors: Lora Starrs, Debra Brown, Sarah Popp, Andrew Ziolkowski, Charmaine Simeonovic

Summary: Paraffin sections (4 ??m thickness) of formalin-fixed human pancreases and isolated human islets were treated with 0.05% pronase for antigen retrieval. HS and Col18 HSPG core proteins were detected immunohistochemically using 10E4 anti-HS (US Biological/Amsbio) and anti-Col18 (Santa Cruz), respectively, with horseradish peroxidase-conjugated rabbit anti-mouse Ig (Dako). Background staining was checked using the corresponding isotype control Ig instead of the primary antibody. 3-amino-9-ethylcarbazole (AEC) was used as the chromogen. For morphometry, stained sections were imaged using a light microscope with attached camera (Olympus BX41). Image J software with color deconvolution plugin was used for the quantitative analysis of the % of islet area stained

Affiliations: The John Curtin School of Medical Research, The Australian National University, The John Curtin School of Medical Research, The Australian National University, The John Curtin School of Medical Research, The Australian National University, The John Curtin School of Medical Research, The Australian National University, The John Curtin School of Medical Research, The Australian National University

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