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Radioimmunoscintigraphy of human pancreatic carcinoma xenografts in nude mice with ^{131}I-labeled monoclonal antibody

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Encouraged by reports of radioimmunoimaging of colorectal carcinomas[1–3] and by examining an immunohistochemical report on resected pancreas cancer tissues[4], we studied the diagnostic potential of radioimmunoimaging with the radioiodinelabeled monoclonal antibody to the surface antigen of a pancreas cancer cell line. A monoclonal antibody (MoAb; HC-1) to a human pancreas cancer cell line (HGC25)[5] was labeled with radioiodine and injected into athymic nude mice implanted with human pancreas cancer cells. Antibody HC-1 was cleared from the circulation and accumulated significantly in the implanted tumor sites.

Key words: radioimmunoimaging, pancreas cancer, monoclonal antibody