# ICA69 (m): 293T Lysate: sc-120935



The Power to Question

#### **BACKGROUND**

Pancreatic islet cells are clusters of endocrine cells that are scattered throughout the tissue of the pancreas and secrete Insulin and glucagon, which help the body store and use sugars. Each islet contains approximately 1,000 cells and is 50-500 µm in diameter. Islet cell autoantigen 1, also designated ICA69 or p69 protein, is an environmental trigger molecule that induces diabetic autoimmunity to Insulin producing islet cells. The human ICA1 gene maps to chromosome 7p22 and generates three transcript variants that encode the T cell epitope (in exon 2) that is detectable by autoreactive T cells in diabetic children. Human ICA69 transcript is abundant in pancreas, brain and heart, with lower levels of expression found in lung, liver, thyroid and kidney.

## **REFERENCES**

- Ching, C.K. and Rhodes, J.M. 1988. Identification and partial characterization of a new pancreatic cancer-related serum glycoprotein by sodium dodecyl sulfate-polyacrylamide gel electrophoresis and lectin blotting. Gastroenterology 95: 137-142
- Skinner, J.R., et al. 1992. Central venous pressure in the ventilated neonate. Arch. Dis. Child. 67: 374-377.
- Pietropaolo, M., et al. 1993. Islet cell autoantigen 69 kD (ICA69). Molecular cloning and characterization of a novel diabetes-associated autoantigen. J. Clin. Invest. 92: 359-371.
- Hirano, K., et al. 1999. A case of non-functioning malignant islet cell tumor with egg-shaped calcification. Nippon Shokakibyo Gakkai Zasshi 96: 189-193.
- Hochwald, S.N., et al. 2001. Laparoscopy predicts metastatic disease and spares laparotomy in selected patients with pancreatic nonfunctioning islet cell tumors. Ann. Surg. Oncol. 8: 249-253.
- Kumagai, N., et al. 2002. Vascularized islet-cell transplantation in miniature swine. I. Preparation of vascularized islet kidneys. Transplantation 74: 1223-30.
- Friday, R.P., et al. 2003. Alternative core promoters regulate tissue-specific transcription from the autoimmune diabetes-related ICA1 (ICA69) gene locus. J. Biol. Chem. 278: 853-863.
- 8. Helling, T.S. 2004. Surgical management of chronic pancreatitis and the role of islet cell autotransplantation. Curr. Surg. 60: 463-469.
- 9. Ito, K., et al. 2004. Localization of islet-cell hyperplasia: value of pre- and intraoperative arterial stimulation and venous sampling. J. Hepatobiliary Pancreat. Surg. 11: 203-206.

## CHROMOSOMAL LOCATION

Genetic locus: Ica1 (mouse) mapping to 6 A1.

#### **PRODUCT**

ICA69 (m): 293T Lysate represents a lysate of mouse ICA69 transfected 293T cells and is provided as 100  $\mu g$  protein in 200  $\mu l$  SDS-PAGE buffer.

#### **APPLICATIONS**

ICA69 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive ICA69 antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

#### **STORAGE**

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

### **RESEARCH USE**

For research use only, not for use in diagnostic procedures.

#### **PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.

Santa Cruz Biotechnology, Inc. 1.800.457.3801 831.457.3801 Fax 831.457.3801 Europe +00800 4573 8000 49 6221 4503 0 www.scbt.com