

ICA69 (H-46): sc-98858

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 μ m 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

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CHROMOSOMAL LOCATION

Genetic locus: ICA1 (human) mapping to 7p21.3; Ica1 (mouse) mapping to 6 A1.

SOURCE

ICA69 (H-46) is a rabbit polyclonal antibody raised against amino acids 223-268 mapping within an internal region of ICA69 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

ICA69 (H-46) is recommended for detection of ICA69 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

ICA69 (H-46) is also recommended for detection of ICA69 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for ICA69 siRNA (h): sc-72102, ICA69 siRNA (m): sc-106991, ICA69 shRNA Plasmid (h): sc-72102-SH, ICA69 shRNA Plasmid (m): sc-106991-SH, ICA69 shRNA (h) Lentiviral Particles: sc-72102-V and ICA69 shRNA (m) Lentiviral Particles: sc-106991-V.

Molecular Weight of ICA69: 69 kDa.

Positive Controls: MIA PaCa-2 cell lysate: sc-2285.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. 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 or our catalog for detailed protocols and support products.


 MONOS
 Satisfaction
 Guaranteed

Try **ICA69 (A-1): sc-271489** or **ICA69 (LIV3D3): sc-53362**, our highly recommended monoclonal alternatives to ICA69 (H-46).