INVESTIGATOR
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IMMUNOGEN
- Substance
  - Name: proinsulin (C-peptide)
  - Origin: human
  - Chemical Composition: recombinant human proinsulin coupled to bovine thyroglobulin

IMMUNIZATION PROTOCOL
- Donor Animal
  - Species: rat
  - Strain: Lewis
  - Sex: female
  - Organ and tissue: spleen
- Immunization
  - Dates immunized: 0, 28 and 56
  - Amount of antigen: 50µg, 5-10µg and 5-10µg
  - Route of immunization: abdominal wall injections
  - Adjuvant: CFA (1st), and IFA (2nd + 3rd)

FUSION
- Date: 1982
- Myeloma cell line
  - Species: mouse
  - Designation: SP2/0-Ag14

MONOCLONAL ANTIBODY
- Isotype: IgG2a
- Specificity
  - Cell binding
  - Immunohistology: human and monkey pancreas
  - Antibody competition
  - Species Specificity: human and monkey C-peptide/proinsulin; does not cross-react to mouse or rat C-peptide/proinsulin

ANTIGEN
- Chemical properties: proinsulin (recombinant, purified)
- Molecular weight: 9.6 kDa
- Characterization
  - Immunoprecipitation: yes
  - Immunoblotting: yes
  - Purification: yes
  - Amino acid sequence analysis: proinsulin is processed to insulin and C-peptide before secretion
  - Functional effects
  - Immunohistochemistry: antibody stains C-peptide in mature granules and proinsulin in immature granules of islet β-cells

PUBLICATIONS:


ACKNOWLEDGMENTS STATEMENT

We have been asked by NICHD to ensure that all investigators include an acknowledgment in publications that benefit from the use of the DSHB's products. We suggest that the following statement be used:

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