

## Anti-Proinsulin Polyclonal Antibody

## Product Details

Ig Type:	IgG
Reactivity:	Mouse,Rat (predicted:Human,Pig,Cow,Horse,Rabbit)
Molecular Weight:	Theoretical: 5.8/12 kDa.
Purification:	Protein A purified

## Applications

## Verified Activity:

1. Tissue/cell: rat pancreas tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-Insulin Polyclonal Antibody, Unconjugated (TMAB-11776) 1: 200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining
2. Tissue/cell: rat pancreas tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-Insulin Polyclonal Antibody, Unconjugated (TMAB-11776) 1: 200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, FITC conjugated used at 1: 200 dilution for 40 minutes at 37°C.
3. Mouse Pancreas (C57BL/6 strain) fixed in 4% PFA for 2 hours at RT, then transferred to 30% sucrose overnight at 4°C. Treated with TBS containing 5% goat serum and 0.3% Triton X-100, to block unspecific binding sites and permeabilize cell membranes, for 30 min at RT. Antibody (TMAB-11776-FITC) diluted at 1:100 in TBS containing 2% goat serum applied and incubated overnight at 4°C. Rinse sections in TBS 2x5min on a shaker, mount section with vectorshield (with DAPI), then cover them with coverslips and seal the edge of the coverslip on the slide with nail polish.
4. Paraformaldehyde-fixed, paraffin embedded (rat pancreas tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Proinsulin) Polyclonal Antibody, Unconjugated (TMAB-11776) at 1: 400 overnight at 4°C, followed by a conjugated secondary for 20 minutes and DAB staining.
5. Paraformaldehyde-fixed, paraffin embedded (rat pancreas); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Proinsulin) Polyclonal Antibody, Unconjugated (TMAB-11776) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
6. Paraformaldehyde-fixed, paraffin embedded (rat pancreas); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Proinsulin) Polyclonal Antibody, Unconjugated (TMAB-11776) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

## A DRUG SCREENING EXPERT

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Application: IHC-P,IHC-Fr,IF

Recommended IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

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### Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

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### Antigen Details

Immunogen: KLH conjugated synthetic peptide: human Insulin

Antigen Species: Human

Gene ID: 3630

Uniprot ID: P01308

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### Research Background

Insulin is one of the major regulatory hormones of intermediate metabolism throughout the body. The biological actions of this hormone involve integration of carbohydrate, protein, and lipid metabolism. Insulin enhances membrane transport of glucose, amino acids, and certain ions. It also promotes glycogen storage, formation of triglycerides and synthesis of proteins and nucleic acids. Immunocytochemical investigations have localized insulin in the B cells of pancreatic islets of Langerhans. Deficiency of insulin results in diabetes mellitus, one of the leading causes of morbidity and mortality in the general population. Insulin is also present in tumors of B cell origin such as insulinoma.

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