bs-0056R **[Primary Antibody]**

Proinsulin Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3630 **SWISS:** P01308

Target: Proinsulin

Immunogen: KLH conjugated synthetic peptide derived from human Insulin: 46-59/110.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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.

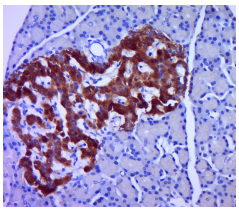
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Mouse, Rat (predicted: Human, Rabbit, Pig, Cow, Horse)

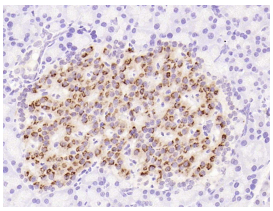
Predicted MW.: 5.8/12 kDa

Subcellular Location: Secreted

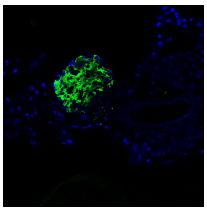
VALIDATION IMAGES



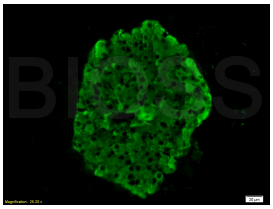
Paraformaldehyde-fixed, paraffin embedded (rat pancreas tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Proinsulin) Polyclonal Antibody, Unconjugated (bs-0056R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat pancreas); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Proinsulin) Polyclonal Antibody, Unconjugated (bs-0056R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



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 30min at RT. Antibody (bs-0056R-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.



Tissue/cell: rat pancreas tissue;4%

Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Insulin Polyclonal Antibody, Unconjugated(bs-0056R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, FITC conjugated(bs-0295G-FITC)used at 1:200 dilution for 40 minutes at 37°C.

SELECTED CITATIONS

- **[IF=6.633]** Yu Fan. et al. The role of substance P in acupuncture signal transduction and effects. Brain Behav Immun. 2021 Jan;91:683 IHC ;Rat. 32956833
- **[IF=5.555]** Xiaohang Wang. et al. Screening and Identification of Key Genes for Activation of Islet Stellate Cell. Front Endocrinol. 2021; 12: 695467 IF ;Rat. 34566887
- **[IF=6.055]** Lagunas-Rangel Francisco Alejandro. et al. Triple drug therapy with GABA, sitagliptin, and omeprazole prevents type 1 diabetes onset and promotes its reversal in non-obese diabetic mice. FRONT ENDOCRINOL. 2022 Oct;0:2702 ELISA ;Mouse. 36339443
- **[IF=4.26]** Yang et al. Paradoxical effect of rapamycin on inflammatory stress-induced insulin resistance in vitro and in vivo. (2015) Sci.Re. 5:14959 IHC ;Mouse. 26449763
- **[IF=3.9]** Amina A. Farag. et al. Ellagic Acid Alleviates Imidacloprid-Induced Thyroid Dysfunction via PI3K/Akt/mTOR-Mediated Autophagy. TOXICS. 2025 May;13(5):355 IHC ;Rat. 40423434