Anti-Insulin B Chain Antibody

0807-11



Product Type:	Rabbit polyclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	IHC-P, ELISA, IF-Tissue
Molecular Wt:	Predicted band size: 12 kDa
Description:	Insulin is a hormone with extensive effects on both metabolism and several other body systems. It causes most of the body's cells to take up glucose from the blood (including liver, muscle, and fat tissue cells), storing it as glycogen in the liver and muscle, and stops use of fat as an energy source. Insulin is synthesized as a precursor molecule, proinsulin, which is processed prior to its secretion. A- and B-peptides are joined together by a disulfide bond to form insulin, while the central portion of the precursor molecule is cleaved and released as the C-peptide.
lmmunogen:	Full length human Insulin B Chain protein.
Positive control:	Human pancreas tissue, mouse pancreas tissue, rat pancreas tissue.
Subcellular location:	Secreted.
Database links:	SwissProt: P01308 Human P01325 Mouse P01322 Rat
Recommended Dilutions: IHC-P ELISA IF-Tissue	1:2,000-1:10,000 1:5,000 1:2,000
Storage Buffer:	1*PBS (pH7.4), 0.2% BSA, 25% Glycerol. Preservative: 0.05% Sodium Azide.
Storage Instruction:	Shipped at 4 $^\circ\!\!\mathbb{C}$. Store at +4 $^\circ\!\!\mathbb{C}$ short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20 $^\circ\!\!\mathbb{C}$ long term.
Purity:	Immunogen affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

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Images



Fig1: Immunohistochemical analysis of paraffin-embedded human pancreas tissue with Rabbit anti-Insulin B Chain antibody (0807-11) at 1/10,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (0807-11) at 1/10,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



Fig2: Immunohistochemical analysis of paraffin-embedded mouse pancreas tissue with Rabbit anti-Insulin B Chain antibody (0807-11) at 1/10,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (0807-11) at 1/10,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



Fig3: Immunohistochemical analysis of paraffin-embedded rat pancreas tissue with Rabbit anti-Insulin B Chain antibody (0807-11) at 1/2,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (0807-11) at 1/2,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

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Fig4: Immunofluorescence analysis of paraffin-embedded human pancreas tissue labeling Insulin B Chain with Rabbit anti-Insulin B Chain antibody (0807-11) at 1/2,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 10% negative goat serum for 1 hour at room temperature, washed with PBS, and then probed with the primary antibody (0807-11, green) at 1/2,000 dilution overnight at 4 $^{\circ}$ C, washed with PBS. Goat Anti-Rabbit IgG H&L (iFluor M 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. Nuclei were counterstained with DAPI (blue).



Fig5: Immunofluorescence analysis of paraffin-embedded mouse pancreas tissue labeling Insulin B Chain with Rabbit anti-Insulin B Chain antibody (0807-11) at 1/2,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 10% negative goat serum for 1 hour at room temperature, washed with PBS, and then probed with the primary antibody (0807-11, green) at 1/2,000 dilution overnight at 4 $^{\circ}$ C, washed with PBS. Goat Anti-Rabbit IgG H&L (iFluor M 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. Nuclei were counterstained with DAPI (blue).



Fig6: Immunofluorescence analysis of paraffin-embedded rat pancreas tissue labeling Insulin B Chain with Rabbit anti-Insulin B Chain antibody (0807-11) at 1/2,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 10% negative goat serum for 1 hour at room temperature, washed with PBS, and then probed with the primary antibody (0807-11, green) at 1/2,000 dilution overnight at 4 $^{\circ}$ C, washed with PBS. Goat Anti-Rabbit IgG H&L (iFluor M 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. Nuclei were counterstained with DAPI (blue).

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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

- 1. Bell G.I., Pictet R.L., Rutter W.J., Cordell B., Tischer E., Goodman H.M.; "Sequence of the human insulin gene."; Nature 284:26-32(1980).
- 2. Nicol D.S.H.W., Smith L.F.;"Amino-acid sequence of human insulin.";Nature 187:483-485(1960).
- Chang X., Joergensen A.M., Bardrum P., Led J.J.; "Solution structures of the R6 human insulin hexamer."; Biochemistry 36:9409-9422(1997).

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