Insulin Polyclonal ANTIBODY
Catalog Number: 15848-1-AP

Basic Information

Catalog Number: 15848-1-AP
Size: 42 μg/150 μl
Source: Rabbit
Isotype: IgG
Purification Method: Antigen affinity purification
Immunogen Catalog Number: AG8630

GenBank Accession Number: BC005255
GeneID (NCBI): 3630
Calculated MW: 110aa, 12 kDa
Observed MW: 36 kDa

Recommended Dilutions:
IHC 1:500-1:1000
IF 1:250-1:1000

Applications

Tested Applications:
IF, IHC, ELISA

Cited Applications:
IF, IHC

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat

Note: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:
IHC: human pancreas tissue; mouse pancreas tissue, rat pancreas tissue
IF: human pancreas tissue, rat pancreas tissue

Background Information

Insulin is a peptide hormone, produced by beta cells of the pancreas, and is central to regulating carbohydrate and fat metabolism in the body. It participates in glucose utilization, protein synthesis and in the formation and storage of neutral lipids. Insulin is synthesized as a precursor molecule, proinsulin, which is processed prior to 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. Defects in insulin results in type 1 diabetes mellitus.

Notable Publications

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<tr>
<th>Author</th>
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<tr>
<td>Lilia Maneva-Radicheva</td>
<td>25295610</td>
<td>PLoS One</td>
<td>IHC</td>
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<tr>
<td>Qiuyu Wang</td>
<td>30301246</td>
<td>Int J Mol Sci</td>
<td>IHC</td>
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<tr>
<td>Wen Guo</td>
<td>28573702</td>
<td>Nutr Metab (Lond)</td>
<td>IHC</td>
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Storage

Store at -20°C. Stable for one year after shipment.

Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T 1-888-4PTGLAB (1-888-478-4522) (toll free in USA), or (312) 455-8498 (outside USA)
E proteintech@ptglab.com
W ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
Selected Validation Data

Immunohistochemical analysis of paraffin-embedded human pancreas using 15848-1-AP(INS antibody) at dilution of 1:500 (under 10x lens)

Immunohistochemical analysis of paraffin-embedded human pancreas using 15848-1-AP(INS antibody) at dilution of 1:500 (under 40x lens)

Immunofluorescent analysis of (4% PFA) fixed human pancreas tissue using 15848-1-AP (Insulin antibody) at dilution of 1:500 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)