Datasheet for ABIN3022885

anti-Insulin antibody (AA 1-110)

5 Images | 1 Publication

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Overview

Quantity:	100 µL
Target:	Insulin (INS)
Binding Specificity:	AA 1-110
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Insulin antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-110 of human INS (NP_000198.1).
Sequence:	MALWMRLLPL LALLALWGPD PAAAFVNQHL CGSHLVEALY LVCGERGFFY TPKTRREAED LQVGQVELGG GPGAGSLQPL ALEGSLQKRG IVEQCCTSIC SLYQLENYCN
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

Target Details

Target:	Insulin (INS)

Target Details

Alternative Name:	INS (INS Products)
Background:	After removal of the precursor signal peptide, proinsulin is post-translationally cleaved into three peptides: the B chain and A chain peptides, which are covalently linked via two disulfide bonds to form insulin, and C-peptide. Binding of insulin to the insulin receptor (INSR) stimulates glucose uptake. A multitude of mutant alleles with phenotypic effects have been identified. There is a read-through gene, INS-IGF2, which overlaps with this gene at the 5' region and with the IGF2 gene at the 3' region. Alternative splicing results in multiple transcript variants.,IDDM,IDDM1,IDDM2,ILPR,IRDN,MODY10,INS,Insulin,insulin,Cancer,Signal Transduction,Cell Biology & Developmental Biology,Growth factor,Endocrine & Metabolism,AMPK Signaling Pathway,Endocrine and metabolic diseases,Diabetes,Obesity,Immunology & Inflammation,NF-kB Signaling Pathway,Neuroscience,Stem Cells,Cardiovascular,Heart,Cardiovascular diseases,Heart disease,INS
Molecular Weight:	11 kDa/21 kDa
Gene ID:	3630
UniProt:	P01308
Pathways:	NF-kappaB Signaling, RTK Signaling, Positive Regulation of Peptide Hormone Secretion, Peptide Hormone Metabolism, Hormone Activity, Carbohydrate Homeostasis, ER-Nucleus Signaling, Regulation of Carbohydrate Metabolic Process, Feeding Behaviour, Autophagy, Negative Regulation of intrinsic apoptotic Signaling, Brown Fat Cell Differentiation, Positive Regulation of fat Cell Differentiation

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Handling Advice:	Avoid freeze / thaw cycles
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

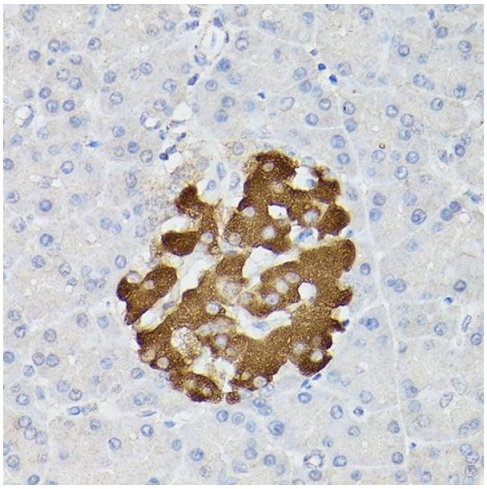
Publications

Product cited in:

Zheng, Zhou, Zhang, Thu, Xie, Lu, Pang, Xue, Xu, Chen, Chen, Li, Xu: "Anhydroicaritin improves diet-induced obesity and hyperlipidemia and alleviates insulin resistance by suppressing SREBPs activation." in: **Biochemical pharmacology**, Vol. 122, pp. 42-61, (2017) (PubMed).

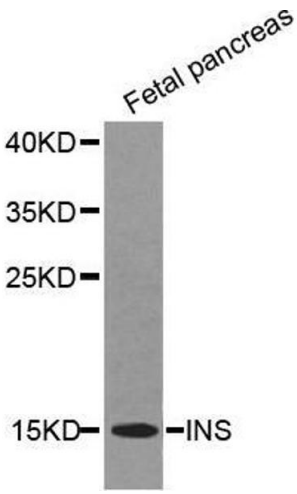
Guo, Hu, Chen, Li, Ye, Cheng, Zhang, He: "iTRAQ-based comparative proteomic analysis of Vero cells infected with virulent and CV777 vaccine strain-like strains of porcine epidemic diarrhea virus." in: **Journal of proteomics**, Vol. 130, pp. 65-75, (2016) (PubMed).

Images



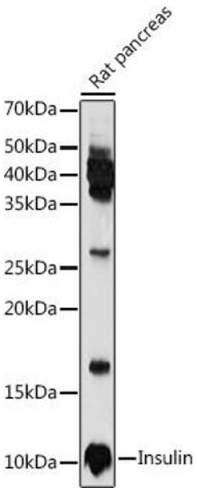
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded rat pancreatic islet using Insulin Rabbit pAb (ABIN3022884, ABIN3022885, ABIN3022886 and ABIN6219279) at dilution of 1:100 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Western Blotting

Image 2.



Western Blotting

Image 3. Western blot analysis of extracts of Rat pancreas, using Insulin antibody (ABIN3022884, ABIN3022885, ABIN3022886 and ABIN6219279) at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Enhanced Kit (RM00021).Exposure time: 180s.

Please check the product details page for more images. Overall 5 images are available for ABIN3022885.