

## Anti-Insulin, mouse monoclonal (BS22)

BSH-2010-100 (0,1ml), BSH-2010-1 (1 ml)



<b>Clonality:</b>	Mouse monoclonal antibody
<b>Clone:</b>	BS22
<b>Application:</b>	IHC-P (1:100 – 1:400)
<b>Species Reactivity:</b>	Human
<b>Control tissues:</b>	Pancreas
<b>Buffer:</b>	TRIS with 0.03% sodium azide, pH 7,2
<b>Storage:</b>	Store at 4°C

### Description

Insulin is a pancreatic hormone that regulates glucose level in blood and it is involved in the synthesis of proteins and fat. Insulin increases cell permeability to monosaccharides, amino acids, and fatty acids. It accelerates glycolysis, the pentose phosphate cycle, and glycogen synthesis in liver. Insulin is a heterodimer of a B chain and A chain linked by two disulfide bonds. Defects in Insulin is the cause of familial hyperproinsulinemia. Insulin is present on the insulin secreted beta cells in islets of Langerhans.

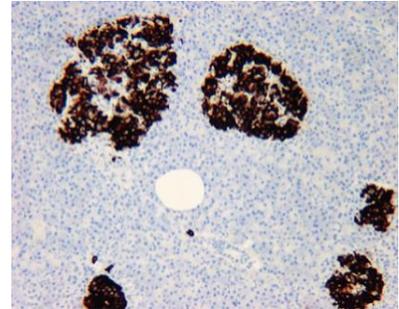
### Protocol

After paraffin removing and rehydration:

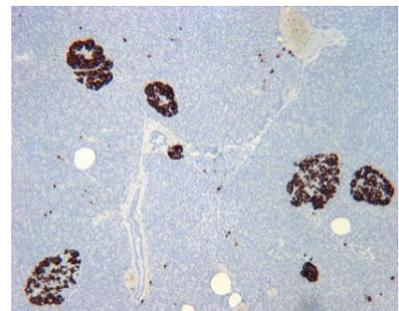
1. Pre-treatment: PT-module HIER pH9 (20min at 98°C)
2. Wash (TBS-Tween in all washing steps)
3. Primary antibody: Insulin 1:100 – 1:400, 30 min.
4. Wash
5. Peroxidase blocking (3% H<sub>2</sub>O<sub>2</sub>), 10 min.
6. Wash
7. One step HRP-polymer detection, 30 min
8. Wash x2
9. DAB-Substrate, 10 min
10. Aqua
11. CuSO<sub>4</sub> -post enhancement, 5 min
12. Aqua

Counter staining, Bluing, dehydration, clearing, and mounting.

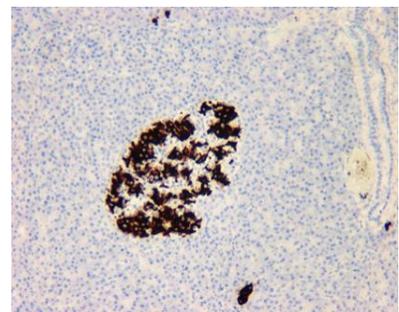
Dilution of concentrated antibody depends on the pre-treatment method and detection system used. Above protocol used in Optibodies evaluation and is meant as a reference. Final working dilution and protocol applied needs to be determined by the user always.



Pancreas section has been stained using insulin optibody (Clone: BS22) with 1:200 dilution. Insulin secreted beta cells have strong label in islets of Langerhans.



Pancreas section has been stained using insulin optibody (Clone: BS22) with 1:200 dilution. Insulin secreted beta cells have strong label in islets of Langerhans.



Pancreas section has been stained using insulin optibody (Clone: BS22) with 1:200 dilution. Insulin secreted beta cells have strong label in islets of Langerhans.