

**Mouse Anti-Insulin [E2-E3]: MC0820, MC0820RTU7**

**Intended Use:** For Research Use Only

**Description:** Insulin is a hormone that regulates glucose homeostasis. It increases cell permeability to monosaccharides, amino acids and fatty acids, and it accelerates glycolysis, the pentose phosphate cycle, and glycogen synthesis in liver. It is synthesized in the beta cell of the pancreas. The antibody labels both normal and neoplastic insulin-producing cells. It is useful in identifying insulinoma.

**Specifications:**

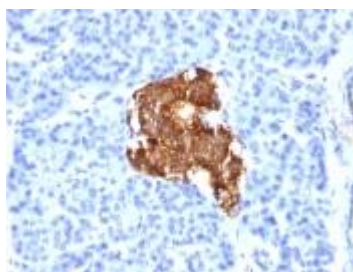
Clone: E2-E3  
Source: Mouse  
Isotype: IgG1  
Reactivity: Human, mouse, rabbit, cow, pig  
Localization: Cytoplasm  
Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
Storage: Store at 2°- 8°C  
Applications: IHC, Flow Cyt., IF  
Package:

Description	Catalog No.	Size
Insulin Concentrated	MC0820	1 ml
Insulin Prediluted	MC0820RTU7	7 ml

**IHC Procedure\*:**

Positive Control Tissue: Pancreas  
Concentrated Dilution: 50-200  
Pretreatment: Citrate pH6.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
Incubation Time and Temp: 30-60 min @ RT  
Detection: Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.



FFPE human pancreas stained with anti-Insulin using DAB

**References:**

1. Comparative quantitative proteomic analysis of disease stratified laser captured microdissected human islets identifies proteins and pathways potentially related to type 1 diabetes. Nyalwidhe JO, et al. PLoS One 12:e0183908, 2017.
2. Hypothalamic AMP-Activated Protein Kinase Regulates Biphasic Insulin Secretion from Pancreatic  $\beta$  Cells during Fasting and in Type 2 Diabetes. Kume S, et al. EBioMedicine 13:168-180, 2016.
3. Drosophila Cbp53E Regulates Axon Growth at the Neuromuscular Junction. Hagel KR, et al. PLoS One 10:e0132636, 2015.
4. A comparative study of mesenchymal stem cell transplantation with its paracrine effect on control of hyperglycemia in type 1 diabetic rats. Aali E, et al. J Diabetes Metab Disord 13:76, 2014.

Doc. 100-MC0820  
Rev. A